

# Project 3 - Competitor Monitoring Agent

n8n Workflow Export — JSON Source (node count: 28)

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{
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  "nodes": [
    {
      "parameters": {},
      "type": "n8n-nodes-base.manualTrigger",
      "typeVersion": 1,
      "position": [
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        192
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      "id": "69ac4ab6-d0e3-4f6f-bc1e-b09b70fb6376",
      "name": "When clicking Execute Workflow"
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        "assignments": {
          "assignments": [
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              "id": "2df31a4a-41ea-4b3e-a632-bdb774edae3b",
              "name": "chatInput",
              "value": "Input: Amazon product URL: https://www.amazon.com/dp/B0BM2ZW2RN Amazon collection URL: https://www.amazon.com/Best-Seller",
              "type": "string"
            }
          ]
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        "options": {}
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      "type": "n8n-nodes-base.set",
      "typeVersion": 3.4,
      "position": [
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      "name": "Set Amazon URLs"
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    {
      "parameters": {
        "jsCode": "let inputText = $input.first().json.chatInput || $('When chat message received').first().json.chatInput;\n\n// Regex patterns"
      },
      "type": "n8n-nodes-base.code",
      "typeVersion": 2,
      "position": [
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        240
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      "id": "f474a6f7-7eed-4d44-9414-c422cd39cc9d",
      "name": "Find URLs"
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    {
      "parameters": {
        "jsCode": "// Get input JSON\nlet inputData = $input.first().json;\n\n// Function to clean links (remove trailing commas and whitespace)"
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      "type": "n8n-nodes-base.code",
      "typeVersion": 2,
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        240
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      "id": "90255742-5506-461a-b5c7-d3bb2b546dfd",
      "name": "Amazon Scraper"
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    {
      "parameters": {
        "jsCode": "// Get input JSON\nlet inputData = $input.first().json;\n\n// Get Amazon product links safely\nlet amazonProducts = (inputData"
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      "type": "n8n-nodes-base.code",
      "typeVersion": 2,
      "position": [
        0,
        368
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      "id": "958797ba-b4ed-479d-9f2e-439c61aa2348",
      "name": "Amazon Products"
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      "parameters": {
        "amount": 10
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      "type": "n8n-nodes-base.limit"
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  ]
}
```

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    "type": "n8n-nodes-base.wait",
    "typeVersion": 1.1,
    "position": [
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    "id": "82a34782-c34a-4298-8323-3836e59abb27",
    "name": "Wait",
    "webhookId": "382332ec-8d28-41d0-8733-15a9953a9a09"
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    "parameters": {
      "jsCode": "// Get input JSON\nlet inputData = $input.first().json;\n\n// Get Amazon collection links safely\nlet amazonCollections = (inp",
      "type": "n8n-nodes-base.code",
      "typeVersion": 2,
      "position": [
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      "id": "a63c5f29-e4f1-4730-a19a-3da2b2cad59a",
      "name": "Amazon Collections"
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      "parameters": {
        "url": "={{ $json.url }}",
        "sendHeaders": true,
        "headerParameters": {
          "parameters": [
            {
              "name": "User-Agent",
              "value": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36"
            }
          ]
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        "options": {
          "timeout": 10000
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      "type": "n8n-nodes-base.httpRequest",
      "typeVersion": 4.5,
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      "id": "9fe5519a-49e8-44e6-832c-96e6847dd071",
      "name": "Get HTML Content",
      "retryOnFail": true,
      "onError": "continueErrorOutput"
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    {
      "parameters": {
        "jsCode": "const cheerio = require('cheerio');\nconst results = [];\n\nfor (const item of $input.all()) {\n  try {\n    const url = item",
        "type": "n8n-nodes-base.code",
        "typeVersion": 2,
        "position": [
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        "id": "3829092a-f2fb-446f-b95e-e4caa2d2f625",
        "name": "Get Amazon Product detail"
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      {
        "parameters": {
          "url": "={{ $json.url }}",
          "sendHeaders": true,
          "headerParameters": {
            "parameters": [
              {
                "name": "Cookie",
                "value": "i18n-prefs=USD; lc-main=en_US; session-id=141-8209501-9981461; session-id-time=20827872011; ubid-main=134-5719883-58510"
              }
            ]
          },
          "options": {}
        },
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        "typeVersion": 4.5,
        "position": [
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          0
        ],
        "id": "ecbf9c85-6286-4aa6-8ab1-e3212d88d127",
        "name": "Get HTML of website."
      }
    }
  },
  {
    "parameters": {
      "url": "={{ $json.url }}",
      "sendHeaders": true,
      "headerParameters": {
        "parameters": [
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            "name": "Cookie",
            "value": "i18n-prefs=USD; lc-main=en_US; session-id=141-8209501-9981461; session-id-time=20827872011; ubid-main=134-5719883-58510"
          }
        ]
      },
      "options": {}
    },
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    "typeVersion": 4.5,
    "position": [
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      0
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    "id": "ecbf9c85-6286-4aa6-8ab1-e3212d88d127",
    "name": "Get HTML of website."
  }
},

```

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{
  "parameters": {
    "operation": "extractHtmlContent",
    "extractionValues": {
      "values": [
        {
          "key": "product_links",
          "cssSelector": "div div a[href*='/dp/']",
          "returnValue": "attribute",
          "returnArray": true
        }
      ]
    },
    "options": {}
  },
  "type": "n8n-nodes-base.html",
  "typeVersion": 1.2,
  "position": [
    720,
    0
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  "id": "ef12fbc9-5988-4bd3-8680-2d4ace60b2f4",
  "name": "Extract HTML Content"
},
{
  "parameters": {
    "jsCode": "for (const item of $input.all()) {\n  // Remove duplicates from product_links array\n  const uniqueLinks = [...new Set($input\n",
    "type": "n8n-nodes-base.code",
    "typeVersion": 2,
    "position": [
      960,
      0
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    "id": "1e12d360-87bd-46a5-b4a0-605e844fee9",
    "name": "Make Amazon accessible URL1."
  },
  {
    "parameters": {
      "jsCode": "// Split the URLs into individual items for processing one by one\nconst productLinks = $input.first().json.product_links;\n",
      "type": "n8n-nodes-base.code",
      "typeVersion": 2,
      "position": [
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      "id": "facda6aa-3b32-4387-ac7c-038d68eeca45",
      "name": "Split URLs1"
    },
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      "parameters": {
        "url": "={{ $json.url }}",
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          "parameters": [
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              "name": "User-Agent",
              "value": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36"
            }
          ]
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        "options": {
          "timeout": 10000
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      "typeVersion": 4.5,
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      "id": "050cbe93-a906-4288-8195-5d13d6ee13a8",
      "name": "URL-wise HTML gather"
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        "jsCode": "const cheerio = require('cheerio');\nconst results = [];\n\nfor (const item of $input.all()) {\n  try {\n    const url = item\n",
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        "typeVersion": 2,
        "position": [
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        "id": "c9238c8f-e2c1-4f04-9ed5-373a5f9ea5fe",
        "name": "URL-wise HTML gather"
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    }
  }
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```

```

    "name": "Amazon Scraper2"
  },
  {
    "parameters": {
      "method": "POST",
      "url": "https://api.firecrawl.dev/v1/scrape",
      "sendHeaders": true,
      "headerParameters": {
        "parameters": [
          {
            "name": "Content-Type",
            "value": "application/json"
          },
          {
            "name": "Authorization",
            "value": "Bearer fc-e7929ee249f2439a8a498e76c93e07b2"
          }
        ]
      },
      "sendBody": true,
      "specifyBody": "json",
      "jsonBody": "{\n  \"url\": \"https://www.wayfair.com/rugs/sb0/area-rugs-c215386.html\", \n  \"formats\": [\"json\"], \n  \"jsonOptions\": {\n    \"options\": {}\n  }\n}",
      "options": {}
    },
    "id": "cb086ab9-6315-4b0b-a232-fd53eda0b327",
    "name": "Scrape Wayfair via Firecrawl",
    "type": "n8n-nodes-base.httpRequest",
    "typeVersion": 4.2,
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    "fieldToSplitOut": "data.json.products",
    "options": {}
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  "id": "7ccf41b7-ebc9-4865-97a9-00b015f16638",
  "name": "Split Out Products",
  "type": "n8n-nodes-base.splitOut",
  "typeVersion": 1,
  "position": [
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{
  "parameters": {
    "mode": "runOnceForEachItem",
    "jsCode": "// Normalize one Firecrawl-extracted product into the same schema\n// used by the rest of the pipeline (matches the original v"
  },
  "id": "a03518fb-2081-4bac-bbb7-9020f4429907",
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          "leftValue": "={{ $json.title }}",
          "rightValue": "",
          "operator": {
            "type": "string",
            "operation": "notEmpty",
            "singleValue": true
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            "type": "string",
            "operation": "notEmpty",
            "singleValue": true
          }
        }
      ],
      "combinator": "and"
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    "options": {}
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  "typeVersion": 2,
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}
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          "rightValue": "",
          "operator": {
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            "operation": "notEmpty",
            "singleValue": true
          }
        }
      ],
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    },
    "options": {}
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],
{
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        "version": 1
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          "rightValue": "",
          "operator": {
            "type": "string",
            "operation": "notEmpty",
            "singleValue": true
          }
        }
      ],
      "combinator": "and"
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  "typeVersion": 2,
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    -240,
    640
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],
{
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          "id": "be58d16c-3002-4a5a-9d27-4f3ac7822f18",
          "leftValue": "={{ $json.title }}",
          "rightValue": "",
          "operator": {
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            "operation": "notEmpty",
            "singleValue": true
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  "type": "n8n-nodes-base.code",
  "typeVersion": 2,
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    640
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}
],
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          "id": "be58d16c-300
```

```

    "id": "9c71ebbf-bb83-4c8c-822b-d1f93659e2e5",
    "name": "Filter Valid Products",
    "type": "n8n-nodes-base.filter",
    "typeVersion": 2.2,
    "position": [
      0,
      640
    ]
  },
  {
    "parameters": {
      "jsCode": "// Collect all products and create final JSON structure\nconst allProducts = $input.all().map(item => item.json);\n\nconst fi",
    },
    "id": "d66f973d-3dd2-4d6e-beab-f77c670100ed",
    "name": "Create Final JSON",
    "type": "n8n-nodes-base.code",
    "typeVersion": 2,
    "position": [
      240,
      640
    ]
  },
  {
    "parameters": {
      "jsCode": "const data = $input.first().json;\nconsole.log(JSON.stringify(data, null, 2));\nreturn [{ json: data }];",
    },
    "id": "2dc0a0bd-b8f4-4406-ab2e-d1a3ec256c6f",
    "name": "Log Final Output",
    "type": "n8n-nodes-base.code",
    "typeVersion": 2,
    "position": [
      480,
      640
    ]
  },
  {
    "parameters": {},
    "type": "n8n-nodes-base.merge",
    "typeVersion": 3.2,
    "position": [
      1728,
      272
    ]
  },
  {
    "id": "d897880d-b242-4b61-ad11-d3041c9891dd",
    "name": "Merge1"
  },
  {
    "parameters": {},
    "type": "n8n-nodes-base.merge",
    "typeVersion": 3.2,
    "position": [
      1984,
      448
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  },
  {
    "id": "5e448452-67b6-4e7b-8784-471b3088b2de",
    "name": "Merge2"
  },
  {
    "parameters": {
      "promptType": "define",
      "text": "={{ $input.all() }}",
      "options": {
        "systemMessage": "You are a customer insights analyst studying ratings, review volume, and recurring complaint or praise themes for ru"
      }
    },
    "type": "@n8n/n8n-nodes-langchain.agent",
    "typeVersion": 3.1,
    "position": [
      2240,
      448
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  },
  {
    "id": "e5bb8497-9185-40dc-bbc2-d3a7f52dcdd9",
    "name": "Analyze All Data",
    "executeOnce": true,
    "retryOnFail": true
  },
  {
    "parameters": {
      "options": {}
    },
    "type": "@n8n/n8n-nodes-langchain.lmChatGoogleGemini",
    "typeVersion": 1.1,
    "position": [
      2224,
      672
    ]
  },
  ],

```

```

    "id": "e732c371-a673-497e-b3eb-5c62df1af2fb",
    "name": "Google Gemini Chat Model",
    "credentials": {
      "googlePalmApi": {
        "id": "gx8uBqASCGoxStNq",
        "name": "Google Gemini(PaLM) Api account 2"
      }
    }
  },
  {
    "parameters": {
      "jsCode": "let html = $input.first().json.output;\n\n// Remove markdown fences like ```html or ```\nhtml = html.replace(/```html|```/g,",
      "type": "n8n-nodes-base.code",
      "typeVersion": 2,
      "position": [
        2480,
        448
      ],
      "id": "4fb086a9-c685-4847-bfcc-04f1dd9d034a",
      "name": "Clean AI Output"
    },
    {
      "parameters": {
        "jsCode": "const text = $input.first().json.cleaned_minified_html;\nconst buffer = Buffer.from(text, 'utf8');\nconst binaryData = {\n  d",
        "type": "n8n-nodes-base.code",
        "typeVersion": 2,
        "position": [
          2720,
          448
        ],
        "id": "e037b463-fec0-47d3-8d90-ac9fac8cc25e",
        "name": "Download HTML File from Here"
      },
      {
        "parameters": {
          "html": "{{ $json.cleaned_minified_html }}"
        },
        "type": "n8n-nodes-base.html",
        "typeVersion": 1.2,
        "position": [
          2960,
          448
        ],
        "id": "40215e8c-9498-4468-8930-81e53d0f8530",
        "name": "See HTML Output Here"
      }
    }
  },
  "pinData": {},
  "connections": {
    "When clicking Execute Workflow": {
      "main": [
        [
          {
            "node": "Set Amazon URLs",
            "type": "main",
            "index": 0
          },
          {
            "node": "Scrape Wayfair via Firecrawl",
            "type": "main",
            "index": 0
          }
        ]
      ]
    },
    "Set Amazon URLs": {
      "main": [
        [
          {
            "node": "Find URLs",
            "type": "main",
            "index": 0
          }
        ]
      ]
    },
    "Find URLs": {
      "main": [
        [
          {
            "node": "Amazon Scraper",
            "type": "main",
            "index": 0
          }
        ]
      ]
    }
  }
}

```

```

    ]
  },
  "Amazon Scraper": {
    "main": [
      [
        {
          "node": "Amazon Products",
          "type": "main",
          "index": 0
        },
        {
          "node": "wait",
          "type": "main",
          "index": 0
        }
      ]
    ]
  },
  "Amazon Products": {
    "main": [
      [
        {
          "node": "Get HTML Content",
          "type": "main",
          "index": 0
        }
      ]
    ]
  },
  "Get HTML Content": {
    "main": [
      [
        {
          "node": "Get Amazon Product detail",
          "type": "main",
          "index": 0
        }
      ]
    ]
  },
  "wait": {
    "main": [
      [
        {
          "node": "Amazon Collections",
          "type": "main",
          "index": 0
        }
      ]
    ]
  },
  "Amazon Collections": {
    "main": [
      [
        {
          "node": "Get HTML of website.",
          "type": "main",
          "index": 0
        }
      ]
    ]
  },
  "Get HTML of website.": {
    "main": [
      [
        {
          "node": "Extract HTML Content",
          "type": "main",
          "index": 0
        }
      ]
    ]
  },
  "Extract HTML Content": {
    "main": [
      [
        {
          "node": "Make Amazon accessible URL1.",
          "type": "main",
          "index": 0
        }
      ]
    ]
  },
  "Make Amazon accessible URL1.": {

```

```
"main": [
  [
    {
      "node": "Split URLs1",
      "type": "main",
      "index": 0
    }
  ]
],
"Split URLs1": {
  "main": [
    [
      {
        "node": "URL-wise HTML gather",
        "type": "main",
        "index": 0
      }
    ]
  ]
},
"URL-wise HTML gather": {
  "main": [
    [
      {
        "node": "Amazon Scraper2",
        "type": "main",
        "index": 0
      }
    ]
  ]
},
"Get Amazon Product detail": {
  "main": [
    [
      {
        "node": "Merge1",
        "type": "main",
        "index": 0
      }
    ]
  ]
},
"Amazon Scraper2": {
  "main": [
    [
      {
        "node": "Merge1",
        "type": "main",
        "index": 1
      }
    ]
  ]
},
"Scrape Wayfair via Firecrawl": {
  "main": [
    [
      {
        "node": "Split Out Products",
        "type": "main",
        "index": 0
      }
    ]
  ]
},
"Split Out Products": {
  "main": [
    [
      {
        "node": "Normalize Firecrawl Products",
        "type": "main",
        "index": 0
      }
    ]
  ]
},
"Normalize Firecrawl Products": {
  "main": [
    [
      {
        "node": "Filter Valid Products",
        "type": "main",
        "index": 0
      }
    ]
  ]
}
```

```

},
"Filter Valid Products": {
  "main": [
    [
      {
        "node": "Create Final JSON",
        "type": "main",
        "index": 0
      }
    ]
  ]
},
"Create Final JSON": {
  "main": [
    [
      {
        "node": "Log Final Output",
        "type": "main",
        "index": 0
      }
    ]
  ]
},
"Merge1": {
  "main": [
    [
      {
        "node": "Merge2",
        "type": "main",
        "index": 0
      }
    ]
  ]
},
"Log Final Output": {
  "main": [
    [
      {
        "node": "Merge2",
        "type": "main",
        "index": 1
      }
    ]
  ]
},
"Merge2": {
  "main": [
    [
      {
        "node": "Analyze All Data",
        "type": "main",
        "index": 0
      }
    ]
  ]
},
"Analyze All Data": {
  "main": [
    [
      {
        "node": "Clean AI Output",
        "type": "main",
        "index": 0
      }
    ]
  ]
},
"Clean AI Output": {
  "main": [
    [
      {
        "node": "Download HTML File from Here",
        "type": "main",
        "index": 0
      }
    ]
  ]
},
"Download HTML File from Here": {
  "main": [
    [
      {
        "node": "See HTML Output Here",
        "type": "main",
        "index": 0
      }
    ]
  ]
}

```

```
    ]
  ],
  "Google Gemini Chat Model": {
    "ai_languageModel": [
      [
        {
          "node": "Analyze All Data",
          "type": "ai_languageModel",
          "index": 0
        }
      ]
    ]
  },
  "active": false,
  "settings": {
    "executionOrder": "v1",
    "binaryMode": "separate"
  },
  "versionId": "fa13e9b1-ac63-40f3-9ce0-c2a15c4ecf65",
  "meta": {
    "instanceId": "515599fc1d88370ec281dbb2eed9312b9f05fe71a211a90430fb41151501fdb"
  },
  "nodeGroups": [],
  "id": "goxSmFyacsMqbgwd",
  "tags": []
}
```