



# Aswin M

## Data Analyst

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### Profile

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Innovative and results-driven Data Analyst with a strong foundation in data science, analytics, and machine learning - Backed by advanced PG-level certification in Data Science and AI, reinforcing practical and theoretical expertise - Proficient in Python, SQL, Power BI, and MLOps platforms for building scalable pipelines and deploying ML models - Hands-on experience with Generative AI, prompt engineering, and multi-agent LLM workflows - Skilled in transforming complex datasets into strategic business insights and driving measurable impact - Adept at applying cutting-edge techniques in real-world scenarios across fast-paced, data-centric environments

### Experience

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#### InvictIQ

##### Data Analyst

09/2022 – 12/2023

London, United Kingdom

- Designed and maintained interactive dashboards using Apache Superset and Power BI, enabling real-time access to KPIs across business verticals, improving decision-making speed by 0
- Built and optimized Python-based web scraping tools using BeautifulSoup, Selenium, and Scrapy, increasing data collection frequency from monthly to daily.
- Developed and maintained end-to-end ETL pipelines using Pandas, NumPy, and SQL, reducing manual data processing by 35
- Used Airflow to schedule and automate workflows for timely delivery of cleaned and enriched datasets.
- Deployed and monitored ML models via Katonic MLOps Platform, streamlining production deployment and version control..
- Developed expertise in prompt engineering techniques including few-shot learning, role prompting, and temperature tuning to optimize Large Language Model outputs for business applications.
- Experimented with integrating multiple generative AI APIs (OpenAI GPT, LangChain) to create multi-agent workflows for automated conversational AI and data retrieval.
- Applied AI agents combining LLMs with external tools to automate tasks and provide context-aware responses.
- Leveraged SQL (MySQL and PostgreSQL) for ad-hoc data analysis and query optimization.

### Skills

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#### Programming Languages

Python, C, C++, Java, SQL.

#### Generative AI / LLM

Large Language Models, Prompt Engineering (few-shot, zero-shot, role prompting), OpenAI, Langchain, Hugging Face Transformers, AI Agents, Multi agents workflows.

## Tools/Frameworks

Power BI, Apache Superset, MySQL, Tableau, Alteryx, Katonic AI, Excel, Machine learning, Data Visualisation, Data Analysis, PostgreSQL.

## Projects

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### Price Foreteller for pre-owned cars

06/2021

- Designed a **gradient boosting regression model** to predict used car prices with **80% accuracy** on test data.
- Implemented **data preprocessing and feature engineering** on a dataset collected from multiple sources, improving prediction reliability.
- Deployed the model on **Heroku** with a **Flask API endpoint**, enabling real-time price predictions.

### Automated Vehicle Accident Detection

11/2019

- Created an **automated accident detection system** that sends real-time alerts to concerned authorities.
- Integrated **GPS and GSM modules with Arduino** to transmit location data during accidents.
- Utilized an **accelerometer sensor** to detect sudden variations in speed and trigger emergency notifications.

## Education

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### NSS College Of Engineering, Palakkad

2017 - 2021

*B.Tech in Computer Science and Engineering (CGPA: 7.1/10.00)*

## Courses and Certification

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### PG Diploma in Data Science and AI

04/2024 - 11/2024

*Analytixlabs*

### Microsoft Power BI: PL-300 Certification Prep

2025

*Udemy*

### Python for Everybody

*Course by Coursera*

### Artificial Intelligence A-Z

*Course by Udemy*

### Complete Python Bootcamp from Zero to Hero in Python

### Katonic MLOps Certification

### Generative Adversarial Network held as a part of ATREYA'19

*Organised by NIT*

### Technical workshop on 3D Game Augmented Reality held as a Part of DYUKSHA'20

*in association with Robosol for a cause and IIT BOMBAY*

### Data Science 360 Course