

Ashraf Ali Ansari

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Summary

Motivated and detail-oriented Software Engineer with a strong foundation in cloud infrastructure, automation, and backend development. Skilled in Google Cloud, Python, SQL, and CI/CD tools like Jenkins and GitHub Actions. Proficient in maintaining and scaling cloud environments, building secure and efficient pipelines, and supporting development teams. Highly adaptable with excellent problem-solving, collaboration, and communication skills, eager to contribute to high-performing DevOps teams.

Skills & Expertise

- **Programming Languages:** Python (Advanced), SQL (Advanced), Java (Intermediate), Shell Scripting
- **Databases:** PostgreSQL, MongoDB, MySQL, Azure Data Lake, Big Tables (Google), Snowflake
- **Tools & Technologies:** Git, Azure, Django REST Framework, Flask, Airflow
- **Other:** Knowledge of REST APIs, Stored Procedures, CI/CD pipelines, Cloud Platforms (GCP, Azure)

Experience

Smallcap.ai – Backend & Machine Learning Intern *(June 2024 – Sept 2024)*

- Developed a Django-based backend and integrated ML model outperforming baseline Web3 token predictors by ~25%.
- Created REST APIs and collaborated with the frontend team to enable real-time price prediction workflows.
- Conducted API testing, documentation, and contributed to backend optimization in a microservices environment.

Tata Consultancy Services – Big Data Developer *(Sept 2022 – Sept 2023)*

- Optimized data ingestion systems using Python and SQL; reduced system latency significantly.
- Worked with SQL and relational databases to support large-scale analytics workflows.
- Performed routine deployments using Git and DevOps practices .

LTI Mindtree – Senior Software Engineer *(June 2021 – June 2022)*

- Designed data ingestion scripts in Python for GCP BigQuery databases.
- Managed Airflow-based ETL pipelines and automated data transformation tasks.

KPMG Global Services – Associate Consultant *(July 2018 – June 2021)*

- Built a Django REST app with React for cloud migration from on-prem SQL Azure Data Lake with schema validation.
- Built PySpark pipelines for ingesting data from APIs, FTPs, and zipped files, transformed them for data lake storage.
- Developed a Python and React based email classification engine using BeautifulSoup for identifying sensitive content.

Education

MSc, Advanced Computer Science – University of Essex *(Sept 2023 – Oct 2024)*

B.Tech, Computer Science & Engineering – MAKAUT *(Aug 2014 – July 2018)*

Projects

- **Hate Speech Detection System:** Built using PyTorch, explored discriminative (Logistic Regression) and unsupervised (LDA) models for document-level classification, enhanced with SMOTE for class balancing.
- **Windmill Power Forecasting:** Developed LSTM-based models to predict excess power generation using weather data, including feature engineering with ANOVA for time-series forecasting.
- **Dissertation:** Explored the impact of class imbalance on LSTM and GRU performance using cardiovascular data from the Moody Challenge 2024, including multi-layer architecture analysis.

Publication:

A Hybrid Model for Optimum Gene Selection using microarray datasets: https://link.springer.com/chapter/10.1007/978-981-13-1280-9_39