Adwiteey Mauriya

Data Science & Engineering
Gen AI | LLM | Fintech

December 25, 1993

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Portuguese

Social Network

github.com/adwiteeymauriya

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Languages

Language	Level
English	● ● ● ● ●
Hindi	● ● ● ● ●
Portuguese	● ● ● ○ ○

Programming languages

Language	Level
Python	● ● ● ●
Scala	● ● ● ●
SQL	● ● ● ●
Kotlin	● ● ● ○
C++	● ● ● ○
C	● ● ● ○
Javascript	● ● ○ ○

Soft skills

Skill	Level
Team player	● ● ● ●
Problem solver	● ● ● ●
Public speaking	● ● ● ●
Presentation	● ● ● ●

About Me

I apply my expertise in data science and engineering to develop and deploy innovative AI solutions in fintech domain using Large Langugage Models(LLMs). With over ten years of research and industry experience, I have a strong background in statistical data analysis, machine learning, big data, high-performance computing, and data analytics, as well as a PhD in Computational Plasma Physics from Instituto Superior Tecnico, Lisbon, Portugal.

I am passionate about solving complex and challenging problems using data and technology, and I enjoy working with cross-functional teams to deliver value to our clients and stakeholders. I have successfully leveraged my skills in Snowflake Cloud, Apache Airflow, and Python to build scalable data pipelines, automate workflows, and generate insights from large and diverse data sets. I am also interested in exploring the applications of generative AI and machine learning in fintech and other domains.
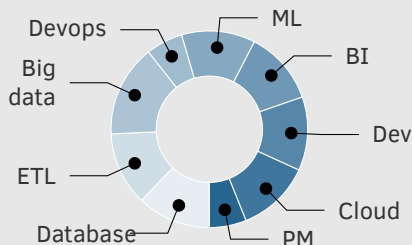
Work Experience

05/2023 – current

Senior Data Science Engineer   Liquidity Capital Inc. Abu Dhabi, UAE

- Utilized LangChain for LLM embeddings, enabling advanced semantic processing for text-based applications.
- Designed and built a chatbot capable of processing financial documents, allowing users to upload documents and ask relevant financial questions for immediate insights.
- Created a comprehensive feature store for the company's financial model, aimed at predicting probability of default (PD) scores, enhancing risk assessment accuracy.
- Engineered a decision model to differentiate active versus out-of-business companies, leveraging LinkedIn profile data for reliable business status classification.
- Successfully deployed, evaluated, and established the company's Business Intelligence (BI) tool on Elastic Kubernetes Service (EKS). This tool is now integral to the company's leadership and data science team for strategic decision-making and data analysis.
- Skills required: Machine learning, Natural language processing(NLP), Large Language models(LLM), Databricks, Python, Spark, Torch, Langchain

08/2022 – 05/2023

Senior Data Engineer   Liquidity Capital Inc. Abu Dhabi, UAE

- Spearheaded the design and development of a machine learning and data pipeline for a bank account aggregator. This system integrates transaction data from over 50 global banks to calculate runway and burn rates for portfolio companies.
- Established and maintained a Continuous Integration/Continuous Deployment (CI/CD) pipeline for Extract, Transform, Load (ETL) repositories, streamlining code deployment and data management processes.
- Administered Amazon EC2 instances, ensuring optimal performance and reliability. Also actively involved in deploying and coding AWS Lambda functions for efficient serverless computing.
- Championed the implementation of code review standards, significantly enhancing code quality and collaboration. Also contributed to the backend infrastructure design, promoting scalable and robust system architecture.
- Tech stacks: Airflow, AWS, AWS Lambda, Step Functions, Python, SQL, Selenium, openAI, Large Language Models(LLM), Langchain.

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Technical skills ─────────

Data Science

Big Data
Hadoop, Spark, Databricks

ETL
Airflow, Dagster, dbt, N8N

Database
Snowflake, BigQuery, Postgres, Mysql, Clickhouse

Devops
Kubernetes, Docker, EKS, Jenkins, Gitlab CI/CD

ML
Scikit-learn, Keras, Torch, Tensorflow, MLflow, Langchain

BI
PowerBI, Tableau, SRSS, Apache Superset

Dev
Intellij, Vscode, Git, SVN

Cloud
GCP, AWS, Supercomputers

PM
Microsoft 365, Jira, Confluence

Certifications ─────────

More than 32 certficates are available on my LinkedIn profile. Please click here to find it.

Memberships ─────────

European Physical Society

American Physical Society

11/2020 – 07/2022	**Data Engineer**	Tripadvisor Inc, Lisbon, Portugal

- Maintained and monitored datasets in multiple data lakes and warehouses: GCP, Snowflake, Hadoop clusters.
- Supported both customer data platform and enterprise data teams.
- Optimized existing ETL processes and created new ones as required.
- Achieved cost savings of over 10 million USD annually for the team.
- Constructed datasets in BigQuery, Hive, and Snowflake.
- Championed code review standards for clean, clear, and consistent business data.
- Assisted in the onboarding of new data engineers within the team and the company.
- Tech stacks: Python, Scala, SQL, Airflow, AWS, GCP, Snowflake, Postgres, Spark, Hive

10/2019 – 07/2020	**Business data analyst**	Netjets Inc, Oeiras, Portugal

- Achieved 80% success in pilot training warehouse automation.
- Built multiple reports for the training warehouse automation.
- Produced 1.1 times the goal of qualified leads from the workshop.
- Developed flight school KPI metrics from raw company data.
- Tracked improvements in the gross margin of the company's training department.
- Tech stacks: Python, SQL, Tableau, SSRS, Excel, Power BI.

08/2016 – 09/2018	**Researcher**	Culham Center for Fusion Energy, Oxfordshire, UK

- Developed numerical tools for studying complex physical phenomena in nuclear fusion reactors.
- Utilized parallel programming in Fortran with MPI and Python.
- Scaled tools on supercomputers equipped with both CPUs and GPUs.
- Modeled fusion experiments using an underlying theoretical model.
- Developed the necessary numerical tools in Python for modeling.
- Created a Python framework to import data from fusion experiments into multiphysics codes.
- Framework facilitates various types of physics studies.
- Expertise required: Python, Scala, Mathematics, Statistics, Programming, Distributed computing, High performance computing, OpenMP, MPI, Slurm, Fortran, Physics

Education

01/2015 – 09/2020	**Ph.D.**	Instituto Superior Tecnico, Lisbon, Portugal. University of Oxford, U.K

in Technological Physics Engineering.
Thesis title: Effect of impurities in intrinsic rotation of tokamak plasmas.

08/2009 – 06/2014	**B.S.-M.S Dual degree**	IISER Pune, India

Physics Major, Mathematics Minor

Awards

KVPY	Competitive fellowship to cover the entire BS-MS dual degree course
FCT	includes tuition fees + living expenses for the entire Ph.D. program
Eurofusion	Covers participating in experiments and traveling to multiple laboratories in European Union.
Marconi supercomputing grant	2 millions cpu hours from CINECA Super computing application and Innovation department, Bologana, Italy