# Usman Ahamed

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## PROFESSIONAL SUMMARY

Data Scientist with expertise in **Machine Learning, Deep Learning, AI, Fraud Detection, and Data Analytics**. Proficient in **Python, SQL, Tableau, and Power BI**, with experience in building predictive models and AI-driven fraud detection solutions. Passionate about leveraging AI to optimize business processes and mitigate financial risks. Strong analytical skills, problem-solving abilities, and a keen eye for data-driven decision-making.

## KEY SKILLS & TOOLS

**Programming Languages:** Python (Pandas, NumPy, SciPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, PyTorch, Flask)
**Databases & Big Data:** SQL (MySQL, PostgreSQL), NoSQL (MongoDB), Apache Spark
**Machine Learning & AI:**Supervised & Unsupervised Learning, Deep Learning, NLP, Computer Vision, Graph Neural Networks
**Data Structures & Algorithms:** Problem-Solving, Optimization, Complexity Analysis
**BI & Visualization Tools:** Tableau, Power BI, MS Excel (Pivot Tables, VLOOKUP, Conditional Formatting)
**Version Control & Deployment:** Git, Docker, Kubernetes, CI/CD
**Soft Skills:** Analytical Thinking, Problem-Solving, Communication, Stakeholder Management

## WORK EXPERIENCE

Unified Mentor Private Limited – Data Analyst Intern May 2024 – November 2024

- Designed **4+ interactive dashboards** (Tableau, Power BI), improving client decision-making by **40%**.
- **Developed AI-powered fraud detection models**, achieving **92% accuracy** in high-risk transaction identification.
- Automated **data extraction and processing using SQL & Python**, reducing **manual effort by 50%**.
- Led **predictive analytics for marketing & operations**, increasing campaign ROI by **20%**.
- Conducted **aviation safety risk analysis** using Python, reducing **flight disruption risks**.

## PROJECTS

**Medical Charge Prediction ML Project**

- Developed a machine learning model to predict medical charges based on patient demographics and health conditions.
- Built **ML models (Linear Regression, Random Forest)** to predict medical costs with **98% accuracy**.
- Performed **EDA and feature engineering**, visualizing key cost factors using **Seaborn & Matplotlib**.
- Deployed the model via **Flask & Heroku** for real-time predictions.

**HR Performance Analysis**

- Analyzed **7,984 employee records**, providing **data-driven workforce insights**.
- Built **interactive Tableau dashboards** to track performance, retention, and salary distribution.
- Explored trends and correlations between employee demographics and salary distributions, leveraging Tableau to provide actionable insights for talent management and salary optimization.

### Aviation Risk Analysis (Bird Strikes Project)

- Created a dynamic dashboard using **Tableau**, comprising 8 visualizations to analyze bird strike trends from 2000–2011, uncovering critical insights such as the impact of wildlife size, flight phases, and geographic damage distribution.
- Analyzed 25000 rows FAA bird strike data to identify trends during critical flight phases. Created visualizations using **Python** to pinpoint peak seasons and improve aircraft safety measures.
- Developed 5 **KPIs** to evaluate aviation safety and operational risks, including damage frequency, cost implications, altitude-related damage, and origin state trends for actionable insights.

## EDUCATION

**London Metropolitan University, London** *January 2024 - March2026*
**Master of Science | Data Science**

**Google Data Analytics Certificate – Coursera *(Completed) - view***
**AWS Machine Learning Specialty *(Planned)***