

Syeda Shamama Afeef

Data Scientist

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SUMMARY

Data Scientist specializing in fraud detection, risk modeling, and financial analytics, with 3+ years deploying ML solutions on AWS/GCP. Proven track record in ethical AI governance (SHAP, bias audits) and stakeholder-driven insights (Tableau, Power BI). Passionate about NatWest's mission to harness data for secure, customer-centric banking.

EXPERIENCE

Data Scientist/Co-founder, GWEN AI, Aurangabad, India	Jun 2024 — Present
<ul style="list-style-type: none">Spearheaded development of AI-driven analytics tools, reducing data processing time by 40%.Automated real-time business intelligence dashboards, improving reporting accuracy by 35%.Led predictive analytics solutions for fraud detection, increasing efficiency by 25%.Designed and deployed scalable data pipelines on AWS to handle large datasets efficiently.Deployed SHAP-based explainability for fraud models to ensure compliance with financial regulations.	
Data Science Intern, BCG, India (Remote)	Feb 2024 — May 2024
<ul style="list-style-type: none">Automated KPI tracking and visualization, saving 60% of manual data analysis time.Engineered time-series forecasting models, improving accuracy by 20%.Delivered real-time data insights using Tableau for strategic financial decisions.Built risk models for financial stakeholders, improving decision-making accuracy by 30%	
Data Science Intern, Techno Hacks, Nashik, India	Jul 2024 — Aug 2024
<ul style="list-style-type: none">Developed fraud detection models, achieving 95% detection accuracy.Automated SQL-based ETL pipelines, improving data processing efficiency by 40%.Created Power BI reports for real-time financial monitoring.	
Artificial Intelligence Intern, Cognizant, India	Aug 2023 — Sep 2023
<ul style="list-style-type: none">Optimized ML models, reducing inference latency by 35%.Developed automated reporting pipelines, improving operational efficiency by 30%.	
Data Analytics Intern, PWC, Switzerland (Remote)	May 2023 — Jul 2023
<ul style="list-style-type: none">Built automated risk models, improving decision-making accuracy by 30%.Designed Tableau dashboards to support real-time financial decision-making.	

EDUCATION

P.E.S College of Engineering, Aurangabad, India - <i>Bachelor of Technology, Electronics and Computer Engineering</i>	Dec 2021 — Jun 2025
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CERTIFICATIONS

Google Advanced Data Analytics Professional, Google	Nov 2023
IBM Data Science, IBM	Jan 2024
Advanced Machine Learning, Udemy	Mar 2023
Regression Analysis, Google	Oct 2023
Artificial Intelligence, Udemy	Apr 2023
SQL Training essentials, Udemy	May 2023
Python with OOP, Udemy	Jan 2023
Statistics, Google	Sep 2023
Advanced Python, Udemy	Aug 2023
DevOps Fundamentals, Udemy	Oct 2022

PROJECTS

Automated Business Intelligence Dashboard for KPI Tracking, P.E.S , Link, India
<ul style="list-style-type: none">Automated KPI tracking dashboards in Power BI & Tableau, reducing manual reporting by 60%.Integrated SQL-based ETL pipelines for real-time updates, improving decision-making speed by 35%.
AI-Driven Credit Card Fraud Detection System, Portfolio , Link, Aurangabad, India
<ul style="list-style-type: none">Improved fraud detection accuracy by 35% with XGBoost and Random Forest models.Implemented real-time anomaly detection, reducing fraudulent transactions significantly.
Financial Market Sentiment Analysis Using NLP, Bharat interns, Link, India
<ul style="list-style-type: none">Built real-time sentiment analysis models using transformers and NLP techniques to track financial market trends.Automated data extraction from social media & financial news, increasing trend prediction accuracy by 28%.Designed an interactive dashboard to visualize insights, aiding investors in real-time decision-making.

Real-Time Object Detection System , Portfolio, Link, Aurangabad, India

- Designed an industrial-grade object detection model using YOLOv5, achieving 98% accuracy.
- Applied in smart surveillance & industrial manufacturing.

AI Chatbot Using Python & Generative AI, Portfolio , Link, India

- Developed GPT-powered chatbot, achieving 98% response accuracy.
- Integrated chatbot automation, optimizing customer service.

SKILLS

Programming & Data Analysis	: Python, R, SQL, Scala, Java, C++, PySpark, NumPy, Pandas, Scikit-Learn, SciPy
Machine Learning & A.I	: Deep Learning (TensorFlow, PyTorch), NLP (Transformers, GPT Fine-Tuning), Generative AI, Computer Vision (YOLO, OpenCV)
Big Data & Cloud Computing	: Apache Spark, AWS (SageMaker, Athena), GCP, Azure, Databricks, Cloud Applications
Data Engineering and MLOps	: ETL Pipelines, Feature Engineering, CI/CD, Docker, Kubernetes, MLFlow, Kedro, Source Data
Databases & Business Intelligence	: PostgreSQL, Snowflake, MongoDB, Tableau, Power BI, Matplotlib, Seaborn, Risk Governance, Business Strategy
Soft Skills	: Cross-Functional Collaboration, Strategic Problem-Solving, Data-Driven Decision-Making, Agile & Scrum, Work Independently, Talented, Attention to Detail
Others	: Professional Development, Communication Skills, Mathematics, Business Objectives, IT, Production Deployment, Product Development
Data Science	: Data Manipulation, Data Warehousing, Data Visualization, Data Analytics, Financial Services, Exploratory Data Analysis