

# Syeda Shamama Afeef

Data Scientist | Analyst | ML Engineer

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## SUMMARY

Results-driven Data Scientist with over 3+ years of experience designing, developing, and deploying high-impact AI/ML solutions across diverse domains. Adept at leveraging state-of-the-art techniques in NLP, Computer Vision, and Deep Learning using TensorFlow, PyTorch, and OpenCV. Proven expertise in transforming business challenges into scalable models, deploying solutions on cloud platforms (AWS, GCP, Azure), and integrating with production environments via REST APIs and CI/CD pipelines. Demonstrated ability to quantify business impact, enhance model accuracy, and communicate data-driven insights effectively across cross-functional teams.

## EXPERIENCE

### Lead Data Scientist, GWEN AI, Aurangabad, India

Mar 2023 — Present

- Orchestrated the end-to-end development of AI-powered business intelligence tools, slashing data processing time by 40%.
- Devised and deployed advanced fraud detection and object recognition systems using PyTorch and TensorFlow.
- Constructed scalable data pipelines and cloud-native model deployments via AWS and Kubernetes.
- Integrated REST APIs and microservices to ensure real-time access and reliability of deployed AI models.
- Conducted impact assessment studies to evaluate the business ROI of deployed models.

### Data Science Intern, BCG, India

Dec 2022 — Feb 2023

- Engineered advanced time-series forecasting models (LSTM/RNN), enhancing forecast precision by 20%.
- Automated KPI dashboards using Tableau & Power BI, reducing manual effort by 60%.
- Collaborated with cross-functional stakeholders to deliver actionable financial insights for executive decision-making.

### Artificial Intelligence Intern, Cognizant, India

Aug 2022 — Nov 2022

- Enhanced machine learning pipelines, reducing inference latency by 35% through model optimization and pruning.
- Built and deployed NLP classification models using Transformers and evaluated business impact on automation.
- Automated reporting workflows and contributed to development of scalable ML models for enterprise use cases.

### Data Analytics Intern, PwC, Remote, India

Mar 2022 — Jun 2022

- Developed AI-powered risk modeling systems and validated predictive accuracy across large-scale financial datasets.
- Constructed dynamic dashboards in Tableau for real-time insights and stakeholder reporting.

## EDUCATION

### Deogiri Institute of Management - *Master of Business Administration (MBA), Information Technology*

Aug 2025 — Present

### P.E.S College of Engineering, Aurangabad, India - *Bachelor of Technology, Computer Science and Engineering - (GPA: 9)*

Dec 2021 — Jun 2025

## CERTIFICATIONS

### [Google's Advance Analytical Professional](#), Google

Nov 2023

### [IBM Data Science](#), IBM

May 2023

### [Advanced Machine Learning](#), Udemy

Mar 2023

### [Regression Analysis](#), Google

Oct 2023

### [Artificial Intelligence Expert](#), Udemy

Apr 2023

### [SQL Training Essentials](#), Udemy

May 2023

### [Python with OOPs](#), Udemy

Jan 2023

### [Statistics](#), Google

Sep 2023

### [Advanced Python](#), Udemy

Aug 2023

### [DevOps Fundamental](#), Udemy

Aug 2022

## PROJECTS

### [Real-Time Object Detection System](#), P.E.S , [Link](#)

- Designed and deployed YOLOv5-based real-time object detection model with 98% accuracy for surveillance and manufacturing applications.
- Applied transfer learning and model quantization to optimize performance across lighting and environmental variations.

### [AI Chatbot Using Python & Generative AI](#), [Portfolio](#), [Link](#)

- Engineered a GPT-powered conversational AI system with semantic search and real-time response accuracy of 98%.
- Incorporated entity recognition and RESTful integration to streamline customer service automation.

## **Financial Market Sentiment Analysis Using NLP, Bharat interns, [Link](#)**

- Built transformer-based sentiment classification system for financial social media and news data streams.
- Automated trend prediction and presented insights through Power BI, improving decision-making by 28%.

## **Automated Business Intelligence Dashboard for KPI Tracking, Amazon , [Link](#)**

- Constructed Power BI/Tableau dashboards integrated with SQL-based ETL workflows, reducing reporting time by 60%.
- Delivered actionable insights to senior leadership with live data visualizations.

## **AI-Driven Credit Card Fraud Detection System, Portfolio, [Link](#)**

- Developed fraud detection pipeline using ensemble methods with over 95% precision.
- Deployed solution with CI/CD pipelines using Docker and AWS Lambda for real-time scoring.

## **SKILLS**

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<b>Programming</b>	: Python, R, SQL, Scala, Java, C++, NumPy, Pandas, Scikit-Learn, PySpark, Xgboost
<b>No-Code &amp; Automation</b>	: Softr.io, Airtable, Custom Workflows, Dashboarding, Reporting
<b>Machine Learning</b>	: Deep Learning (TensorFlow, PyTorch), NLP (Transformers, Spacy, BERT, GPT Fine-Tuning), Computer Vision (YOLOv5, OpenCV), Generative AI, Knowledge Graphs, Algorithms, LLMs
<b>Data Engineering and MLOps</b>	: ETL Pipelines, Feature Engineering, CI/CD, MLFlow, Docker, Kubernetes, Kedro, Model Validation, Model Optimization
<b>Cloud Technologies and Big Data Platforms</b>	: AWS (SageMaker, Lambda, Athena), GCP, Azure, Databricks, Hadoop, CUDA Programming, GPU Computing
<b>Databases and BI Tools</b>	: PostgreSQL, Snowflake, MongoDB, Tableau, Power BI, Matplotlib, Seaborn, Risk Governance, Semantic Search, Relationship Extraction
<b>Soft Skills</b>	: Cross-Functional Collaboration, Consultative Problem Solving, Strategic Thinking, Agile & Scrum, Innovation, Communication, Curiosity