Ananya Baghel

Machine Learning Engineer

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Professional Summary

Machine Learning Engineer with expertise in deploying production ML systems, data analytics, and full-stack development. Proven track record building ML solutions with 85% accuracy in anomaly detection, 30% improvement in processing efficiency, and 99.9% system uptime. Specialized in Python, TensorFlow/PyTorch, NLP, Computer Vision, and cloud deployment (AWS/GCP).

Technical Skills

ML/AI: TensorFlow, PyTorch, Scikit-learn, Keras, XGBoost, NLTK, OpenCV, Computer Vision, NLP, Deep Learning
Languages: Python, R, SQL, JavaScript, Java, C++
Tools & Platforms: Docker, GCP, AWS, Git, Tableau, Power BI, Streamlit, Flask, Django, React, Node.js
Data: Pandas, NumPy, ETL Pipelines, Feature Engineering, Statistical Analysis, PostgreSQL, MongoDB

Professional Experience

Data Analyst Intern — Jan. 2024 – Mar. 2024

Skillcred — *Remote*

- Built interactive Tableau/Power BI dashboards, improving reporting efficiency by 35% for executive decision-making
- Developed statistical forecasting models using Python/R, achieving 20% improvement in prediction accuracy
- Automated data processing pipelines reducing manual effort by 40% and enabling real-time analytics

Software Engineering Simulation (JPMorgan Chase) — Sep. 2024 – Oct. 2024

Forage — *Remote*

- Built financial data visualization platform processing 10K+ data points using Python and proprietary APIs
- Optimized algorithms for trading data processing, achieving 30% runtime reduction through ML techniques
- Integrated JPMorgan APIs for automated trading insights, improving data retrieval efficiency by 25%

Machine Learning Projects

Veera: AI-Powered Women Safety Analytics | *Python, TensorFlow, Flask, PostgreSQL, React* **Nov. 2024 – Present**

- Developed ML pipeline for real-time safety analytics with anomaly detection achieving 85% accuracy using ensemble methods
- Built automated SOS alert system with ML-based risk assessment, reducing emergency response time by 30%
- Created predictive hotspot mapping using clustering algorithms and deployed Tableau dashboards

DeepThoughts: NLP-Powered Journaling Intelligence | *Django, PyTorch, NLTK, React, AWS* **June 2024 – Aug. 2024**

- Architected full-stack ML app with sentiment analysis processing 10K+ entries, achieving 92% accuracy using BERT/GPT
- Improved user engagement by 20% through ML-driven personalization and recommendation engine
- Deployed scalable microservices on AWS with 99.9% uptime handling concurrent ML inference

DataNexus: Automated ML Preprocessing Engine | *Python, Streamlit, Scikit-learn, Pandas* **May 2024**

- Engineered preprocessing pipeline supporting 8+ file formats with automated feature engineering and quality checks
- Achieved 95% data consistency and reduced preprocessing time by 40% through parallel processing algorithms

Think2Action: ML-Driven Project Intelligence | *React, Node.js, TensorFlow.js, GCP, Docker* **June 2024 – Aug. 2024**

- Built intelligent project management with ML-based task prioritization and NLP for requirement analysis
- Deployed containerized application on GCP with auto-scaling and integrated ML model serving

Education

GLA University — Aug. 2023 – Jun. 2027

Bachelor of Computer Science, Specialization in AIML & IoT — Pre-Final Year — *Mathura, UP*

Certifications & Achievements

Certifications: TensorFlow Developer Certificate, AWS ML Specialty, Deep Learning Specialization (Coursera)
Achievements: Open Source Contributor (scikit-learn, TensorFlow) — CodeChef 3-star — 15+ ML technical articles