

Aditya Sreevatsa K

Portfolio — LinkedIn — GitHub

M. Tech — Data Science, Machine Learning & Artificial Intelligence.

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SUMMARY

AI/ML Engineer with a strong foundation in Machine Learning, NLP, and Deep Learning, backed by over 3.5 years of professional Software Engineering experience.

Currently expanding advanced ML capabilities through an M.Tech in Data Science, with hands-on experience delivering scalable AI solutions and deploying Machine Learning models in production environments. Adept at combining robust engineering practices with state-of-the-art AI techniques, and well-equipped to contribute to AI-first teams through both development expertise and applied ML skills.

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, SQL, Bash
- **ML Frameworks & Libraries:** TensorFlow, PyTorch, Keras, Scikit-learn, XGBoost, LightGBM, Transformers, Hugging Face
- **AI Domains:** Deep Learning, NLP, LLMs, Recommender Systems, Computer Vision (OpenCV, YOLO), Reinforcement Learning
- **Data Engineering & Processing:** Pandas, NumPy, PySpark, Feature Engineering, Data Wrangling, Aggregation, Data Cleaning
- **Experiment Tracking & MLOps:** MLflow, Weights & Biases, DVC, GitHub Actions, Airflow, CI/CD Pipelines
- **Model Deployment:** FastAPI, Flask, TensorFlow Serving, TorchServe, ONNX, Docker, Kubernetes, AWS (EC2, S3, Lambda)
- **Visualization & Analytics:** Matplotlib, Seaborn, Plotly
- **Databases & Storage:** MongoDB, Neo4J, PostgreSQL, MySQL, Elasticsearch

PROFESSIONAL EXPERIENCE

- **Infosys** Bengaluru, Karnataka, India
Associate Consultant (AI-ML & API Professional) - Client Facing Role Apr. 2024 – Present
 - Led the development and deployment of AI and Machine Learning solutions, improving model prediction accuracy by over **15%** and reducing data processing times by **30%** in enterprise production systems.
 - Built Natural Language Processing (NLP) modules to convert user queries into Cypher, reducing manual query generation time by **90%** and enabling intuitive access to Neo4j graph databases.
 - Engineered and optimised backend services and RESTful APIs (Java, Spring Boot), reducing system latency by **40%** and increasing request throughput by **25%**.
 - Collaborated directly with clients across **5+** projects to deliver tailored AI-ML and API solutions, achieving a **95%** client satisfaction score and securing a **20%** increase in follow-on work.
- **Ernst & Young (EY)** Bengaluru, Karnataka, India
Software Engineer - Client Facing Role Dec. 2023 – Mar. 2024
 - Designed ML-based fraud detection algorithms, reducing losses by 20%.
 - Developed real-time Kafka pipelines for ML analytics, processing over 1 million events daily.
 - Enhanced data extraction from customer and transaction data, boosting ML pipeline efficiency by 35%.
 - Integrated Python pipelines with Oracle databases, reducing data errors by 40%.
- **Accenture** Bengaluru, Karnataka, India
Custom Software Engineering Analyst - Client Facing Role Dec. 2021 – Dec. 2023
 - Led end-to-end microservices development using Python, Java, and Spring Boot, delivering **7 microservices** that improved system scalability by **40%**.

- Collaborated with stakeholders to uphold coding standards, resulting in **zero critical bugs** during post-release and ensuring high-quality deliverables.
- Facilitated agile processes, interpreted requirements, and managed timely module delivery, ensuring **95%** on-time completion of project milestones.
- **Additional Responsibility: Generative AI Initiative:**
 - * Used GitHub Copilot to accelerate development, reducing coding time by **20%** and enhancing microservice quality.
 - * Automated boilerplate code generation, reducing manual coding effort by **30%**.
 - * Designed scalable and efficient microservice architectures using AI-powered tools, improving system performance by **25%**.

EDUCATION

- **PES University** Bengaluru, Karnataka, India
Master of Technology [Data Science, Machine Learning, and AI]; GPA: 9.8 Jan. 2024 – Jan. 2026
- **CMR Institute of Technology** Bengaluru, Karnataka, India
Bachelor of Engineering [Mechanical]; GPA: 8.6 Aug. 2017 – Aug. 2021

RESEARCH

- **Paper on Explainable AI Framework**
Title and details withheld due to double-blind review Under Review
- **Survey of Explainable AI (XAI) Techniques: Methods, Applications, & Challenges**
Surveying XAI methods, challenges, applications. Under Review

PROJECTS

- **DS-ML Playground:** Built robust ML pipelines for regression, classification, and clustering using Scikit-learn and Pandas. Included preprocessing, feature engineering, model training, and evaluation metrics.
- **The Neural Nexus:** Implemented a suite of deep learning models in PyTorch, including CNNs, transformers, and generative architectures. Focused on modular design, hyperparameter tuning, and deployment readiness.
- **Suggestify – Recommendation Systems:** Developed collaborative, content-based, & hybrid recommenders using Scikit-learn & Surprise, emphasizing personalization, scalability, & evaluation techniques.
- **NLP Navigator:** Explored tokenization, sentiment analysis, and named-entity recognition with spaCy, NLTK, and Transformers. Demonstrated practical text-understanding use cases.

Additional Projects Applied AI Lab, PySpark Pipeline, MongoDB Mechanics, 100 Days of Code: Python

ACHIEVEMENTS

- **Infosys:** Received multiple Gracias Awards for outstanding contributions and meeting critical project deadlines (Feb 2025, Sep 2024).
- **Ernst & Young:** Awarded the User Appreciation Award for significant team contributions (Mar 2024).
- **Accenture:** Honored with the prestigious ACE Award and recognized as Top Performer across multiple quarters (Dec 2022, Feb & May 2023).
- **Academic Excellence:** Top of the class in M.Tech program in Data Science, Machine Learning, and AI; recipient of a scholarship for academic excellence at PES University (2024).

CERTIFICATIONS

- **Machine Learning Specialisation:** Stanford University & DeepLearning.AI
- **DeepLearning.AI TensorFlow Developer Certificate:** DeepLearning.AI
- **Applied Data Science Lab:** WorldQuant University
- **Text Prompt Engineering Techniques Skill Badge:** Google Cloud
- **AWS Certified Solutions Architect:** Amazon Web Services
- **AWS Cloud Well-Architected - Proficient:** Amazon Web Services
- **MongoDB SI Associate:** MongoDB
- **Red Hat OpenShift AI Delivery Practitioner - Foundational:** Red Hat
- **Programming for Everybody (Python):** University of Michigan