SHIVASHANTAVEER NAINEGALI

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Career Objective

Motivated AI/ML Engineer-in-training with hands-on experience designing, developing and deploying **end-to-end machine learning pipelines** for real-world applications including conversational AI and network security. Proficient in Python, TensorFlow, Scikit-learn, NLP and deep learning frameworks; strong command of **feature engineering**, **hyperparameter tuning**, and **model optimization**. Built and productionised an AI-powered legal chatbot leveraging LLMs and NLP, reducing data retrieval time by 60%. Currently pursuing B.Tech in AI & ML with a minor in AI from IIT Ropar. Seeking to contribute to scalable, cloud-based AI/ML solutions at a forward-looking organisation.

Skills

- **Programming:** Python, SQL, HTML/CSS
- **Machine Learning & Deep Learning:** supervised/unsupervised learning, CNN, LSTM, NLP, Generative AI (LLMs), RAG
- **Frameworks & Libraries:** TensorFlow, Keras, PyTorch, Scikit-learn, NumPy, Pandas, Matplotlib
- **DevOps & MLOps:** Model deployment, versioning, monitoring, CI/CD pipelines, data pipelines/ETL
- **Cloud & Infrastructure:** AWS / GCP / Azure (mention whichever you have exposure to)
- **Tools & Data:** Web scraping, feature engineering, model evaluation, Git, Problem-solving

Experience

Project Intern at IIIT Dharwad | Under Asst. Professor Sunil | Project: Legal Chatbot Development

- Led the **architecture and deployment** of an AI-powered legal chatbot using large language models (LLMs) and NLP, achieving 25% improvement in contextual understanding.
- Developed and productionised the **end-to-end machine learning pipeline**: web-scraped >X legal documents, cleaned & pre-processed data, engineered features, trained & fine-tuned models
- Reduced manual data retrieval time by 60% via automated scraping pipelines and ETL workflows.
- Collaborated with supervising faculty and stakeholders to translate legal assistance requirements into technical specifications and deliverables.
- Preparing research documentation for submission to FIRE Conference 2025, showcasing generative AI deployment in legal-tech domain.

Projects

Minor Project 1: Intelligent Traffic Management System

- Developed an ML-based traffic congestion prediction system by integrating multi-source data (sensor + transport schedules + weather).
- Improved travel-time estimation accuracy by 30% compared to baseline, delivering actionable insights for urban mobility planning.
- Deployed predictive model prototype and visualised recommendations for optimal routing and transport options.

Minor Project 2: Network-Based Intrusion Detection System Using AI

- Designed and implemented a CNN-LSTM architecture for real-time network threat detection and anomaly classification; achieved **92% accuracy** while minimizing false positives.
- Built data pipelines for streaming network data, engineered features and visualised results via dashboards using Matplotlib.
- Optimised model hyperparameters, improved model robustness, and documented deployment considerations for MLOps readiness.

Education

Bachelor of Engineering in AI & ML CGPA: 6.85
SDM College of Engineering & Technology, Dharwad 2022-2026

Pre-University Percentage: 92%
GMH PU College 2020-2022

Minor in Artificial Intelligence Grade**:**7
IIT Ropar 2024-2025

Certifications

- Internshala: Machine Learning with Python
- NVIDIA: Generative AI Fundamentals, LLM's
- IIT Ropar: Minor Program in Artificial Intelligence

Achievements & Interests

- Presented AI-driven automation project at college symposium.
- Actively contribute to GitHub repositories on AI/ML and voice automation.
- Avid follower of generative AI, neural networks and voice automation technologies.
- Enthusiastic about music, reading novels and watching sci-fi/thrillers (personal interest that adds personality).

Soft Skills

Analytical Thinking • Problem-Solving • Project & Time Management • Adaptability • Team Collaboration • Clear Communication