

SAHIL CHAVAN

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Professional Summary

Machine Learning Engineering student pursuing B.Tech in Computer Science (AI & ML) with strong proficiency in Python, Deep Learning, Agentic AI systems, and full-stack web development. Experienced in building machine learning models, backend systems, and deploying real-world applications. Actively seeking AI/ML and software engineering internships.

Education

B.Tech – Computer Science Engineering (Artificial Intelligence & Machine Learning)

D. Y. Patil College of Engineering & Technology (DYPCET)

Expected Graduation: 20XX

Relevant Coursework: Machine Learning, Deep Learning, Artificial Intelligence, Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Networks, Probability and Statistics

Technical Skills

Programming Languages: Python (Advanced), C, C++, Java, SQL

Machine Learning and AI: Supervised Learning, Unsupervised Learning, Regression, Classification, Clustering, Feature Engineering, Model Evaluation, Hyperparameter Tuning

Deep Learning: Artificial Neural Networks, Convolutional Neural Networks, Model Training, Optimization Techniques, Loss Functions

Agentic AI: Autonomous Agents, Tool-Using Agents, Prompt Engineering, Multi-step Reasoning Pipelines, AI Workflow Orchestration

Libraries and Frameworks: NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch (basic), Matplotlib, Seaborn, OpenCV

Web Development: HTML, CSS, JavaScript, PHP, Flask, REST APIs

Databases: PostgreSQL, MySQL

Tools: Git, GitHub, Jupyter Notebook, VS Code, Linux, Render, Railway

Projects

FlowGuard – AI-Based Flow Monitoring and Anomaly Detection System

- Designed an AI-driven system to monitor data or process flow and detect anomalies in real time.
- Implemented machine learning models to identify abnormal patterns and deviations.
- Applied data preprocessing, feature engineering, and evaluation metrics to improve detection accuracy.
- Focused on reliability, scalability, and real-world applicability of intelligent monitoring systems.

StudentNest – PG/Hostel Finder Web Application

- Developed a full-stack web application with role-based authentication for students, owners, and administrators.
- Designed and managed relational database schemas using PostgreSQL.
- Implemented backend logic, secure sessions, and listing management using PHP.
- Deployed the application with attention to scalability and maintainability.

Machine Learning and Deep Learning Projects

- Built and evaluated regression and classification models using Scikit-learn.
- Implemented basic deep learning models using TensorFlow and PyTorch.
- Applied hyperparameter tuning and performance metrics such as accuracy, precision, recall, F1-score, and RMSE.

Experience

Machine Learning Engineer – Academic and Self-Driven Projects

- Worked on end-to-end ML pipelines including data preprocessing, model training, and evaluation.
- Integrated machine learning models with backend systems and web applications.

Additional Information

Strong problem-solving skills, hands-on experience with AI systems, backend development, and deployment. Actively learning advanced agent-based AI architectures and real-world ML applications.