

SWATI GUPTA

Software Developer | Exploring AI/ML & Gen AI

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ABOUT ME

Software Developer with ~3 years of experience in full-stack development (.NET, C#, TypeScript, databases) and hands-on involvement in AI/ML and GenAI projects. Passionate about AI/ML, NLP, data analysis, and visualization, with hands-on experience in machine learning and graph-based techniques. Open to roles in AI Development, Data Science, or Agentic AI systems.

SKILLS

LANGUAGE: Python, JavaScript, Typescript, SQL, C#

FRAMEWORK: .Net, Scikit-Learn, Pydantic, LangChain (exploring), NLP

TOOL: Pandas, NumPy, Seaborn, Matplotlib, Plotly, Git, Excel, Power Point

PLATFORMS: Jupyter Notebook, Google Colab, Visual Studio, VS Code, Pycharm, SQL Server, PG Admin

WORK EXPERIENCE

Software Developer

Acideas Pvt Ltd, Noida

October 2022 - PRESENT

- Developed data visualization modules using React.js (TSX) and amCharts4
- Built backend APIs in .NET C# to support real-time analytics dashboards
- Contributed to AnalyticsGPT, an internal LLM-based assistant for automated insights
- Optimized data pipelines and migrated database from SQL Server to PostgreSQL
- Explored ML & NLP techniques to enhance product intelligence

PROJECTS

GenAI Resume Matcher (In Progress)

- Building an AI-powered tool to compare resumes with job descriptions using sentence-transformer embeddings
- Calculates semantic similarity using cosine distance and highlights skill gaps
- Designed prompts and logic to generate improvement suggestions without relying on paid LLM APIs
- Implemented using Python, Streamlit, and open-source NLP models

Heart Disease Analysis Using Machine Learning

- Conducted exploratory data analysis (EDA) to uncover patterns and key health indicators influencing heart disease risk
- Preprocessed data: handled missing values, encoded categorical variables, and scaled features for ML readiness
- Trained and evaluated K-Nearest Neighbors (KNN) and Decision Tree classifiers for binary classification
- Achieved 85% accuracy with KNN vs. 78% with Decision Tree
- Visualized insights and model performance using Matplotlib and Seaborn for effective result communication

Real-Time Mask Attendance System with Web Portal

- Developed a real-time attendance system using CNN-based facial recognition to automatically mark student presence
- Designed a web portal for students to securely view their attendance records
- Collaborated with a team and secured 1st runner-up position in a competitive project showcase

EDUCATION

Bachelor of Technology (Computer Science) Uttarakhand

Technical University - 2019-23

CERTIFICATIONS

Certified by Microsoft (Microsoft Technical Associate)

- Programming Using Python
- Security Fundamentals

Certified by IBM

- Data Analysis
- Machine Learning