

Nikhil Mittal

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ABOUT ME

Final-year B.Tech Computer Science student at SRM Institute of Science and Technology with strong proficiency in Python, machine learning, and neural networks. Experienced in developing AI/ML projects with real-world applications, and skilled in translating complex problems into effective, scalable solutions

SKILLS

Programming Languages:

Python, Java, HTML/CSS, C++, C, SQL, JavaScript

Core Computer Science Concepts:

Data Structures and Algorithms (DSA) Object-Oriented Programming (OOPs) Design and Analysis of Algorithms
Operating Systems Natural Language Processing (NLP)

Tools/Software:

Git, VS Code, IntelliJ IDEA, Blender, AWS, Jupyter Notebook

Technologies/Frameworks:

TensorFlow, scikit-learn, FastAI, OpenCV, SQLite, Matplotlib, Pandas, NumPy, Grad-CAM, Prophet, LSTM, Random Forest, SVM

Projects

Credit Card Fraud Detection - Machine Learning

Aug 2023

- Implemented a credit card fraud detection system using Python, scikit-learn, and TensorFlow; applied Random Forest, Logistic Regression, Neural Networks, and anomaly detection techniques to achieve high accuracy via ensemble learning.

Expense Forecasting Using Machine Learning: Comparative Analysis of Regression, SVR, Decision Trees, and Prophet Models

Nov 2024

- Developed an AI-powered Expense Insight system using Python, Flask, and ML techniques to analyze and visualize personal financial data, enabling users to track spending patterns and receive predictive budgeting insights. Achieved 94%+ accuracy

Plant Diseases Detection System using AI

April 2024

- Designed and implemented a plant disease detection system using Convolutional Neural Networks (CNN) and FastAI on a dataset of 20,000 images. Employed TensorFlow for model training and applied Grad-CAM for explainable AI to visualize prediction focus areas. Compared performance with SVM to validate model accuracy. Achieved 98%+ accuracy

Publications

- Expense Forecasting Using Machine Learning: Comparative Analysis of Regression, SVR, Decision Trees, and Prophet Models

Nov 2024

Nikhil Mittal, *Mayank Gupta*

IJISRT24NOV1392

- Plant Diseases Detection System using AI

April 2024

Nikhil Mittal, *Mayank Gupta*

Education

- **SRM University of Science And Technology** , B.Tech in Computer Science
GPA: 8.21/10.0
- **Bal Bharati Public School**, 12th Class
Percentage: 78.8
- **Bal Bharati Public School**, 10th Class
Percentage: 60.4

Interests

- Software Development Engineer (SDE)
- AI/ML Research
- Data Scientist / Data Analyst