

SHISHIR AGARWAL

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Education

Vellore Institute of Technology, Bhopal

B.Tech in Computer Science and Engineering — CGPA: 8.96

Aug 2022 – Present

Bhopal, India

City Montessori School, Lucknow

ISC Class 12th — Percentage: 94%

July 2022

Lucknow, India

City Montessori School, Lucknow

ICSE Class 10th — Percentage: 96.33%

July 2020

Lucknow, India

Technical Skills

Languages: Java, C/C++, Python, SQL, HTM, CSS

Frameworks: Pandas, Matplotlib, Tensorflow, Keras, NLTK, MySQL

Tools: Tableau, Google Cloud Platform(GCP), Amazon Web Services(AWS)

Core CS Skills: Data Structures and Algorithms, Database Management Systems, Computer Networking, Machine Learning, Cloud Computing, Data Analytics, Database Management

Soft Skills: Leadership, Collaboration, Communication, Teamwork, Team Building, Problem Solving, Strong Ownership

Internship

UDAAN FOUNDATION

May 2025 – June 2025

Data Analyst Intern

Remote

- Analyzed financial and donor data to support strategic decision-making and optimize resource allocation.
- Helped improve fund utilization efficiency and enhanced donor engagement strategies through data-driven insights.
- Assisted in preparing performance dashboards, created cost analysis dashboards, created cost analysis reports, and contributed to impact measurement for programs.

Projects

Credit Card Fraud Detection | Python, Scikit-Learn, Pandas, NumPy | GitHub

July 2024

- Developed a novel hybrid model incorporating an Isolation Forest for anomaly scoring and an Autoencoder for feature engineering, which enhanced the predictive power of a Random Forest classifier.
- Achieved a superior F1-Score of 0.874, Precision Score of 0.944 and a Matthews Correlation Coefficient of 0.876 with the proposed model, outperforming all other implemented baseline models in identifying fraudulent transactions.
- Enhanced model performance by 22.8% in F1-Score and 21.1% in MCC over the Gradient Boosting Classifier, while significantly outperforming other baseline models like Logistic Regression and Decision Trees.

Automated Chatbot for Indian Income Tax Queries | Python, NLTK, scikit-learn, TensorFlow, JSON | GitHub

Aug 2024

- Developed and trained a deep learning chatbot using Python, Keras, and NLTK to provide instant responses to Indian Income Tax Return (ITR) queries.
- Engineered a text preprocessing pipeline for intent recognition, featuring tokenization, lemmatization, and Bag-of-Words (BoW) vectorization to prepare data for the neural network.
- Constructed and trained a sequential neural network using TensorFlow with Dense and Dropout layers for accurate intent classification, optimizing with Stochastic Gradient Descent (SGD).
- Implemented a context management system to handle conversational flow, enabling the chatbot to provide personalized ITR form recommendations based on user employment type.

Certifications & Achievements

Cloud Computing (IIT Kharagpur)

May 2024

- Achieved Top 5% Topper Badge with a Silver Elite Certificate.

Machine Learning Specialization (Stanford Online, DeepLearning.AI)

July 2024 – Sept 2024

- Supervised Machine Learning: Regression and Classification by Stanford Online.
- Advanced Learning Algorithms by Stanford Online.
- Unsupervised Learning, Recommenders, Reinforcement Learning

Google Cloud Digital Cloud Leader Certified

Aug 2024

Solved more than 250 DSA problems on LeetCode and GFG

Obtained the SQL 50 Badge on LeetCode

Leadership and Involvement

FinTech Club

Jan 2024 – Oct 2024

President

VIT Bhopal

- Led a team of 70 members, organizing and overseeing all club activities, meetings, and events.
- Successfully conducted major events like FinGenAI Hackathon, StockQuest, and CodeQuest Finanza.
- Directed the development of multiple software projects, enhancing the club's technical capabilities

Extracurricular Activities

GeeksforGeeks Student Chapter - Core Member

2023

- Managed and created content for various occasions and events.