

# SHISHIR AGARWAL

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## Technical Skills

**Languages:** Java, C/C++, Python, JavaScript, SQL, HTML, CSS, PHP


**Frameworks:** , React.js, NumPy, Pandas, Matplotlib, Scikit-learn, PyTorch, 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, Automation Frameworks

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


## Projects

**MindSync - ADHD Detection** | *Python, TensorFlow, Conv3D, LSTM* | [GitHub](#)  **Feb 2024 – May 2024**

- Developed a deep learning model using Conv3D LSTM to detect ADHD from 3D MRI scans in NIFTI format.
- Implemented data preprocessing and augmentation techniques to enhance model performance.
- Utilized TensorFlow and Keras to train and fine-tune the model, improving accuracy and efficiency.

**Credit Card Fraud Detection** | *Python, Scikit-Learn, Pandas, NumPy* | [GitHub](#)  **July 2024**

- Pre-processed and analyzed credit card transaction data, addressing class imbalance using undersampling and oversampling.
- Implemented various ML algorithms including Logistic Regression, Decision Trees, Random Forest, and Gradient Boosting.
- Evaluated models using metrics such as accuracy, precision, recall, and ROC-AUC to optimize fraud detection performance.

**Automated Chatbot for Indian Income Tax Queries** | *Python, NLTK, scikit-learn, TensorFlow, JSON* | [GitHub](#)  **Aug 2024**

- Developed an AI chatbot to assist users with income tax-related queries in India.
- Implemented complex dialogue management to handle follow-up questions and guide users to the correct ITR forms.
- Designed and optimized the chatbot using machine learning techniques, improving response accuracy and user experience.

## Experience

**Alt Capitals** **Jan 2025 – March 2025**

Full-Stack Software Developer Intern

*Remote*

- Built a full-stack platform to help proprietary firms manage funded traders, their performance and automate funding decisions.
- Built dynamic dashboards to visualize P&L, equity curves, and drawdown metrics, with real-time trade data integration.
- Integrated a machine learning model to detect high-risk trading behavior and flag potential violations using scikit-learn.

## Education

**Vellore Institute of Technology, Bhopal**

B.Tech in Computer Science and Engineering — CGPA: 8.83

**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*

## Certifications & Achievements

**AWS APAC Solutions Architecture Virtual Experience Program (Forage)** **March 2025**

- Designed a simple and scalable hosting architecture using Elastic Beanstalk.
- Explained architecture to the client in plain language, covering cost estimations.

**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

**Cloud Computing (IIT Kharagpur)** **May 2024**

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

**Google Cloud Digital Cloud Leader Certified** **Aug 2024**

**The Bits and Bytes of Computer Networking (Google)** **Dec 2023**

**Excel Essential Training (National Association of State Boards of Accountancy)**

## Extracurricular Activities

**FinTech Club - President** **Jan 2024 to Oct 2024**

- Leading 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

**GeeksforGeeks Student Chapter - Core Member** **2023**

- Managed and created content for various occasions and events.