Shishir Agarwal

Lucknow, India-226004 | +916387649599 | agarwalshishir91@gmail.com | [LinkedIn](#) | [Github](#)

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**
- Engineered a novel fraud detection pipeline by combining Isolation Forest and Autoencoder features for enriched anomaly scoring.
- Trained Random Forest classifier on the enhanced dataset and bench-marked it against standard models .
- Achieved superior performance in fraud detection with improved precision, F1-score, and ROC-AUC over baseline models.

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.

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

Education

Vellore Institute of Technology, Bhopal — **Aug 2022 – Present**
B.Tech in Computer Science and Engineering — CGPA: 8.83 — *Bhopal, India*
City Montessori School, Lucknow — **July 2022**
ISC Class 12th — Percentage: 94% — *Lucknow, India*
City Montessori School, Lucknow — **July 2020**
ICSE Class 10th — Percentage: 96.33% — *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**

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

Extracurricular Activities

AdVITya Event Co-ordinator - *Volunteer* — **Jan 2023**
- Successfully co-ordinated and conducted various technical and non-technical events in the Annual AdVITya Fest conducted by VIT Bhopal.

GeeksforGeeks Student Chapter - *Core Member* — **2023**
- Managed and created content for various occasions and events.