VIKAS

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Education

Maharaja Surajmal Institute of Technology, GGSIPU   2022 - 2026
Bachelor of Science in Computer Science (CGPA: 8.2.00 / 10.00)   *Delhi*
- **Relevant Coursework:** Data Structures and Algorithms (Java), Object-Oriented Programming (Java), Database Management(SQL,NoSQL), AI and Machine Learning(Python), Software Development, Web Development

Experience

Oulier AI   May 2024 – sept 2025
AI Contributor   *Remote*
- Contributed to AI-driven solutions by building, testing, and refining machine learning workflows and prompt-based intelligence systems.
- Assisted in data preprocessing, model evaluation, and deployment-ready optimizations for real-world AI use cases.
- Collaborated with cross-functional teams to improve AI response accuracy, scalability, and performance.

IBM SkillBuild   Jun 2025 – Aug 2025
Data Analyst Intern   *Hybrid*
- Performed advanced exploratory data analysis (EDA) using **Python**, **Excel**, and visualization libraries to extract business insights.
- Designed and executed **A/B testing** experiments and applied statistical techniques to validate hypotheses.
- Automated reporting dashboards and translated analytical results into actionable business recommendations.

Innovate   Sep 2025 – Jan 2026
Software Development Engineer Intern   *Hybrid*
- Designed and built a **microservices-based application** with secure **authentication and authorization**, RESTful APIs, and persistent database integration following industry best practices.
- Worked on scalable application modules, debugging, and performance optimization in collaborative agile teams.

Projects

EchoClean — Real-Time Toxic Speech Filter for Voice Chats | *Python, Whisper, Vosk, Transformer Models, NLP*
- Designed an **AI-powered real-time voice moderation system** to detect and mitigate toxic speech such as hate, harassment, and offensive language during live voice chats.
- Implemented a **speech-to-text pipeline** using **Whisper/Vosk** followed by **transformer-based toxicity classification** trained on Jigsaw and HateXplain datasets.
- Developed a **monitoring dashboard** to visualize flagged speech, system activity, and model performance for transparency and explainability.

NetGuard — AI-Based Secure Self-Recovering Communication System | *Java, Python, AES, RSA, ML, LAN/Wi-Fi Networking*
- Built a **secure peer-to-peer communication system** for LAN and Wi-Fi networks supporting encrypted text messaging and file sharing without internet dependency.
- Trained a **machine learning classifier (Random Forest)** to classify network states (normal, congestion, instability, failure) from live telemetry data.
- Enabled **autonomous self-recovery** by dynamically adapting transmission strategies (chunk size, retry logic, partial data transfer) based on AI predictions.

Technical Skills

Programming   : Java, C++, Python, SQL, JavaScript, HTML
Web & Backend   : ReactJS, NodeJS, ExpressJS, MongoDB, REST APIs
Data & AI   : Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, EDA, A/B Testing
Visualization & BI   : Tableau, Excel Dashboards, Google Sheets
Dev & Tools   : Git, GitHub, VS Code, Jupyter Notebook
Concepts   : DSA, OOPs, DBMS, OS, Software Engineering, System Design Basics
Certifications: IBM AI Internship (2024) | Forage Data Analytics Job Simulations: **Deloitte**, **TATA**, **Quantium** (2025)