

VIKRAM MADHAD

B.Tech in Computer Science and Engineering – specialization in AI/ML

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EDUCATION

Degree	Institute	CGPA/Percentage	Year
B.Tech CSE	Bennett University, Greater Noida	8.56	2027
Class XII, CBSE	R.E.D School, Jhajjar, Haryana	89.2%	2022
Class X, CBSE	R.E.D School, Jhajjar, Haryana	90.2%	2020

INTERNSHIPS

Imarticus Learning | Data Analytics Intern | Noida May 2025 – Jul 2025

- Leveraged advanced **SQL** skills for complex querying to extract and manipulate key data across **3 distinct analysis projects**
- Developed **Python** scripts to **automate** key data preprocessing and cleaning tasks, thus improving data quality and efficiency
- Designed **dynamic Power BI dashboards** to visualize complex datasets and communicate actionable insights to stakeholders

PROJECTS

Healin - RAG-based Medical AI Assistant | Flask, LangChain, Pinecone, Google Gemini, NLP Apr 2026

- Engineered an end-to-end **RAG** system integrating **Pinecone** and **gemini-1.5-flash** to deliver accurate, context-aware responses
- Architected a pipeline to **extract, preprocess, and chunk PDFs** (500-token) and generate embeddings for semantic retrieval
- Deployed a **Flask**-based streaming API using LangChain retrieval chains, improving accuracy, reducing hallucinations by **80%**

AI Product Feedback Analyzer | Python, NLP, Transformers, Scikit-learn Dec 2025

- Engineered an **AI pipeline** to process **10K+ Play Store reviews**, converting unstructured feedback into **product insights**
- Leveraged **sentiment classification** and **topic clustering** achieving **85%+ accuracy** identifying user pain points and requests
- Delivered **5+ product metrics** (complaint distribution, issue frequency, trends) driving data-informed **roadmap decisions**

CityServ – Digital Labor Marketplace | Next.js, Prisma, MySQL May 2025

- Building a multi-role platform connecting users with professionals in **15+** service categories via geolocation and live booking
- Implemented **NextAuth.js authentication, Prisma schema, and modular API routes** for user, provider, booking management
- Built a responsive dashboard with **5+** key modules for live updates and service tracking, enhancing user workflow efficiency

Sign Language Recognition System | TensorFlow, Keras, OpenCV, SQLite Sept 2025

- Built a **CNN model with 3 convolutional layers** using **TensorFlow and Keras**, achieving **92% accuracy** in gesture classification
- Collected and processed **1,200+ images per gesture** across **15 unique gesture classes** through an automated OpenCV pipeline
- Integrated **gesture-to-speech translation** with **<0.5s latency** using **SQLite** for label mapping and **pyttsx3** for voice output

GNSS Error Prediction & Visualization System | Flask, React, LSTM, Python Aug 2025

- Built a robust **end-to-end GNSS error prediction system** using **LSTM models** trained on **1 GB+** of satellite telemetry data
- Integrated **Flask APIs with a React-based dashboard**, enabling visualization of **4** geolocation errors and prediction trends
- Optimized the **backend server architecture** to cut data latency by **40%**, ensuring faster and more accurate output delivery

StockFlux – Stock Trend Prediction & Analysis | Python, Streamlit, LSTM Dec 2024

- Built a **Streamlit app** integrating an advanced **LSTM model** trained on **5+** years of Yahoo Finance data for trend prediction
- Implemented **4+** interactive analytics modules (candlestick charts, RSI, moving averages) to visualize live stock behavior
- Generated actionable trading insights by strategically combining AI predictions with **10+** distinct technical analysis signals

RELEVANT COURSEWORK

• **Core Courses:** Data Structures and Algorithms, Operating Systems, Database Management Systems, Computer Networks, AI/ML Foundations, Deep Neural Networks, Project Planning

• **MOOCs/Certifications:** AWS Certified AI Practitioner, Google Cybersecurity, Google AI Essentials, Algorithmic Toolbox, Linux Fundamentals, Regression Analysis (Coursera)

SKILLS

Languages: Python, Java, C, C++, HTML, CSS, SQL, LaTeX

AI Tools & Frameworks: HuggingFace Transformers, SentenceTransformers, FastAPI, Streamlit, TensorFlow, Scikit-learn

Other Skills: UiPath, Git/GitHub, Jira, Figma, Canva, Linux, Data Structures & Algorithms, Machine Learning, Deep-Learning, MS Excel, PowerPoint

POSITIONS OF RESPONSIBILITY

Vice President | Robotics Process Automation (RPA) Club | Bennett University Aug 2024 – Present

- Built and led a **40+ member core team** and secured over **Rs.1,00,000+** in new sponsorships, boosting total funding by **160%**
- Designed and launched the official club website with automated workflows, increasing overall digital engagement by **3.2×**
- Spearheaded campus-wide automation (**UiPath, Python**), cutting manual effort by **70%** and trained **300+** students in RPA