

# 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 on Railway.com, reducing hallucinations by **80%**

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

Dec 2025

- Hosted an **AI pipeline** on HuggingFace to process **10K+ 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**

**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 **pytsx3** 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