RIDDHVESH DINESH DIXIT

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Education

Shri Ramdeobaba College of Engineering and Management, Nagpur — **Nov 2022 – May 2026**
B.Tech in Artificial Intelligence and Machine Learning — **CGPA: 7.27/10**

Brijlal Biyani Science College, Amravati — **June 2020 – Mar 2022**
HSC (12^{th}) — **Percentage: 65%**

Dnyanmata High School, Amravati — **Mar 2020**
SSC (10^{th}) — **Percentage: 83%**

Skills

- **Languages:** Python, C
- **Web Development:** HTML, CSS
- **Databases:** MySQL
- **Data Tools:** Pandas, NumPy, Excel
- **CS Fundamentals:** Computer Networks, Database Management Systems (DBMS), Operating Systems
- **Soft Skills:** Leadership, Team Spirit, Decision Making, Analytical Thinking, Street Smart

Work Experience

Code Alpha — **April 2025 – May 2025**
Machine Learning Intern

- Engineered a credit scoring pipeline that leveraged logistic regression and decision trees to assess loan default risk, improving decision accuracy by 20%.
- Developed a high-accuracy CNN-based handwritten character recognition system using TensorFlow and OpenCV, reducing manual data entry time by 60%.
- Performed feature scaling, one-hot encoding, and hyperparameter tuning using grid search and cross-validation to optimize model performance.
- Gained hands-on experience with end-to-end ML workflows from data preprocessing and exploratory data analysis to model training and deployment.
- Documented and presented results with actionable insights to mentors, improving the team's model validation strategy using performance metrics such as precision, recall, and F1-score.

Projects

Skillbridge – Market Demand Analysis Platform (2025) [link]

- Designed a full-stack AI platform to analyze job market data and assess the relevance of academic curriculums to real-world hiring demands.
- Built dynamic dashboards using Python, pandas, and Plotly to display live KPIs across different domains and roles in tech education.
- Implemented a recommendation engine that suggests curriculum improvements based on real-time job postings and keyword analysis using NLP.
- Collaborated closely with UI/UX designers to build an interactive and accessible interface, enhancing user experience and platform engagement.

Stock Price Prediction Using LSTM (2025) [link]

- Built an LSTM-based deep learning model using Keras to predict short-term stock prices based on historical time-series data of multiple companies.
- Integrated multiple financial indicators like moving average, momentum, and volatility into the feature pipeline to boost forecast precision.
- Trained and validated the model using walk-forward validation, and visualized predictions with matplotlib to assess deviation from actuals.
- Tuned hyperparameters such as learning rate, batch size, and sequence window size, leading to a 15% drop in RMSE over baseline models.

Certificates

- Ethical Hacking Essentials (EHE) – Coursera