

Ayan Ahmad

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EDUCATION

Vellore Institute of Technology, Bhopal
Bachelor of Science in Computer Science, CGPA - 8.97

Bhopal, Madhya Pradesh
Oct 2022 – July 2026

Sinha Model High School
Class XI - XII, Percentage - 81%

Patna, Bihar
June 2018 – March 2020

Radiant International School
Class VII - X, Percentage - 85%

Patna, Bihar
April 2014 – May 2018

PROJECTS

E-commerce Website | *JavaScript, Node.js, Express, MongoDB*

May 2024 – July 2024

- Engineered a full-stack e-commerce web application enabling users to browse products, add items to a cart, and complete transactions.
- Integrated user authentication and authorization through JWT, securing user sessions and data.
- Developed RESTful APIs for managing products and processing orders, ensuring a scalable and maintainable architecture.
- Implemented a payment gateway, facilitating secure transactions and enhancing user trust.

Hate Speech Detection | *Python, RNN, LSTM, BERT*

February 2024 – April 2024

- Designed a system utilizing RNN, LSTM, and BERT to classify and flag offensive comments.
- Constructed neural network models and evaluated their performance using training and testing data.
- Presented classification reports and confusion matrices to assess model efficacy.
- The fine-tuned BERT model achieved superior performance with an accuracy of 78%, surpassing RNN (66%) and LSTM (70%).

Traffic Prediction | *Python, GCN, LSTM, Git*

August 2023 – October 2023

- Developed a deep learning-based traffic prediction system employing GCN and LSTM models for accurate traffic forecasting.
- Achieved MAE of 3.9534 for San Bernardino, 2.7175 for San Francisco Bay Area, and 3.5607 for Seoul with neural network models.
- Compared MAE with naive prediction methods, demonstrating improved accuracy: 5.24 for San Bernardino, 4.25 for San Francisco Bay Area, and 5.10 for Seoul.
- Recorded MASE of 0.755, 0.669, and 0.694 per segment for the datasets mentioned.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL, JavaScript, HTML/CSS

Frameworks: React.js, Spring boot, TensorFlow

Developer Tools: Git, Tableau, Linux, AWS, Figma

Soft skills: Problem Solving, Communication, Team work, Market Research

ACHIEVEMENTS

- Secured a **Global Rank of 45** in CodeChef Starters 178.
- Secured a **Global Rank of 156** in CodeChef Starters 176.
- Current CodeChef Rating:** 1667 (3-star) - [codechef.com/users/ayan988ahmad](https://www.codechef.com/users/ayan988ahmad).
- Secured a **Global Rank of 4352** in Codeforces Round 997 (Div-2) - [codeforces.com/profile/ayan247](https://www.codeforces.com/profile/ayan247).
- Solved **322** questions on LeetCode - leetcode.com/u/marcusayan/.

EXTRACURRICULAR ACTIVITIES

Web Development Lead, Freelancing Club

VIT, Bhopal

Coordinated a team of 10 members and designed a responsive website for the Freelancing Club