

TANWEER IQBAL

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EDUCATION

Vellore Institute of Technology, Bhopal
Bachelor of Science in Computer Science, CGPA – 8.41

Bhopal, Madhya Pradesh
Oct 2022 – July 2026

F.N.S Academy
Class XI - XII, Percentage - 73%

Patna, Bihar
March 2020 – February 2022

Teresa International Academy
Class X, Percentage - 65%

Patna, Bihar
April 2019 – May 2020

PROJECTS

- News Website** | JavaScript, Node.js, MongoDB, HTML, CSS, PostgreSQL June 2023 – July 2023
- Developed a full-stack news web application enabling users to browse news articles, filter by categories, and engage with content.
 - Implemented user authentication and authorization using JWT for secure login and personalized user experience.
 - Designed and developed RESTful APIs for news article management and content updates.
 - Integrated a content management system (CMS) for seamless article publishing and user role management.
 - Implemented SEO best practices to optimize content visibility and drive organic traffic.
- Food Delivery Website** | JavaScript, Node.js, HTML, CSS, React.js, MongoDB February 2024 – April 2024
- Developed a full-stack food delivery web application allowing users to browse restaurant menus, add items to the cart, and place orders.
 - Implemented user authentication and authorization using JWT to ensure secure user access and personalized order management.
 - Designed and implemented RESTful APIs for managing restaurant data, orders, and delivery tracking.
 - Integrated a payment gateway for secure transactions, ensuring seamless and encrypted payment processing.
- Traffic Prediction** | Python, GCN, LSTM, Git August 2024 – October 2024
- Developed an end-to-end deep learning-based traffic prediction system utilizing Graph Convolutional Networks (GCN) and Long Short-Term Memory (LSTM) models.
 - Achieved Mean Absolute Error (MAE) on PEMS 08 (San Bernardino): 3.9534, PEMS 04 (San Francisco Bay Area): 2.7175, and Seoul: 3.5607.
 - Compared MAE for naive prediction: PEMS 08: 5.24, PEMS 04: 4.25, and Seoul: 5.10.
 - Calculated Mean Absolute Scaled Error (MASE) per segment: PEMS 08: 0.755, PEMS 04: 0.669, and Seoul: 0.694.

TECHNICAL SKILLS

Languages: Python, C/C++, SQL, JavaScript, HTML/CSS
Frameworks: React.js, Node.js
Developer Tools: Git, Google Cloud Platform, PyCharm
Libraries: pandas, NumPy

ACHIEVEMENTS

- Successfully completed **NPTEL Certification in Cloud Computing** with a score of 69%, conducted by **Indian Institute of Technology (IIT) Kharagpur**.
- Achieved **AWS Academy Cloud Foundations certification**, demonstrating proficiency in fundamental AWS cloud concepts.

EXTRACURRICULAR ACTIVITIES

Web Development, Freelancing Club VIT, Bhopal
Developed a responsive website for the Freelancing Club, enhancing online presence and user engagement.

Sports, Kabaddi, VIT Bhopal
Gained key skills such as **teamwork, dedication, time management, work ethic, self-improvement, and communication** through active participation in team sports.