AMUL TIWARY

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Gmail ⋄ LinkedIn ⋄ Github ⋄ Portfolio

EDUCATION

Master of Computer Application, Maulana Azad National Institute of Technology — Expected 2026
CGPA: 7.61

Bachelor of Computer Application, Prabudh Institute of Technology and Management — 2017 - 2020
Percentage: 75.96

TECHNICAL SKILLS

Languages	Python, Java, JavaScript, C
Frontend	HTML, CSS, React, Tailwind, Bootstrap
Backend	Node.js, Express.js, Socket.IO,Firebase
DevOps	Docker(Basic),Jenkins(Basic), Git, GitHub
Database	MySQL , MongoDB
CS Fundamentals	Operating Systems, Networking
ML	NumPy, Pandas,Tensorflow,Keras

RELEVANT EXPERIENCE

MoviehubGpt — AI-Powered Movie Recommendation Web App

- Built a responsive movie app using **React**, **Redux**, Firebase, and **Tailwind CSS** with full auth and protected routes.
- Integrated TMDB and OpenAI APIs for dynamic movie suggestions with multi-language support.
- Managed state with **custom hooks** and **Redux slices** for user, movies, and trailers, optimizing with memoization.
- Deployed to production via GitHub with clean UI, responsive design, and embedded trailer autoplay feature.

Handwritten Digit Recognition (AI Project)

- Built a **CNN model** using TensorFlow/Keras on the **EMNIST dataset**.
- Designed a **Streamlit UI** and implemented real-time model predictions.
- Focused on model optimization, system integration, and interactive API deployment.
- Applied **one-hot encoding** and categorical cross-entropy for multiclass classification with high precision.
- Integrated image preprocessing techniques like thresholding and normalization to improve prediction accuracy.

Inventory Management System (Full Stack)

- Developed modular backend structure using **Express.js** and **MySQL** with **REST APIs**.
- Managed user authentication using **JWT**, integrated file uploads using **Multer**.
- Practiced API optimization, DB indexing, and efficient data fetching patterns.
- Implemented search, filtering, and cart functionality for a complete user journey.

ACHIEVEMENTS & CERTIFICATIONS

- Ranked **373rd** in NIMCET (NIT MCA Entrance) through consistent preparation.
- Solved **300+ DSA problems** on LeetCode, GfG, and other platforms.
- **Captain of College Cricket Team** – led the team to finals.