HARSHAL PATIL

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PROJECTS

JobDrop – Job Match Resume Platform | *Github Live*   Nov 2024 - Jan 2025
Tech Stack : MongoDB, Express, React, Node.js, Passport.js, JWT, Multer, pdf-parse, mammoth, Hugging Face APIs.
- Built a MERN-stack **job-matching platform** that processed 200+ resumes for 20+ students.
- Integrated **Google OAuth2 and JWT** to secure authentication.
- Automated resume parsing and domain classification (pdf-parse, mammoth) and **zero-shot NLP for accurate domain classification (100% text extraction coverage).**
- **Aggregated 1,000+ job** listings from LinkedIn, Indeed, and Glass-door with dynamic filters, cutting search time by 50%.

CodeKerf – Online Collaborative Code Editor | *Github Live*   Jan 2025 - Feb 2025
Tech Stack : React, CodeMirror, Node.js (Express), MongoDB, Socket.io, Docker, AWS EC2
- Built a React/CodeMirror real-time collaborative editor synced via socket.io.
- Created Docker-isolated C++, Python, and Java runners with enforced resource caps.
- Developed an Express REST API with **MongoDB** session storage **to manage code states**.
- Deployed on AWS EC2 with Docker Compose and shareable session URLs for seamless collaboration.

Social Media Post Sentiment Analysis | *Github Live*   July 2024 - Aug 2024
Tech Stack : HTML, CSS, Flask, Python, NumPy, Pandas, NLTK, H5, Pickle, TensorFlow, Keras
- Developed an **AI/ML**-powered Flask app using a **bi-LSTM model** to classify sentiment of social media posts.
- Achieved **~90% model accuracy** on validation data using optimised preprocessing and training.
- Implemented **NLTK**-based text preprocessing and real-time inference with TensorFlow and a saved tokenizer.
- Designed front-end with Jinja2 and **deployed on Render** with **GitHub-based CI/CD.**

SKILLS

• **Relevant Coursework**	Data Structure and Algorithms, Operating Systems, Object Oriented Methodologies, Database Management System, Computer Networks.
• **Programming Languages**	HTML,CSS, JavaScript, **Python (basic), C/C++,** SQL (basic).
• **Frameworks/Libraries**	React.js, Node.js, Express.js.
• **Databases**	MongoDB
• **Tools/Technologies**	Git, REST APIs, VS code, Latex, Excel, Shopify, AWS cloud

CODING PROFILE

- **Leetcode** Contest Rating - **1650(Max)** , 250+ DSA problem solved.
- **Codeforces** Contest Rating - **950(Max).**

ACHIEVEMENTS

- Achieved top 16.81% ranking on LeetCode.
  - Ranked 5169/32425 in Leetcode weekly contest.

EDUCATION

B.Tech in Smart Manufacturing   July 2021 - May 2025
Indian Institute of Information Technology, Design and Manufacturing
Kancheepuram

Higher Secondary Education (C.B.S.E)   July 2018 - June 2019
Jawahar Navoday Vidyalaya Chandrapur, Maharashtra