Bhavin Patel

+(91) 9892785595 | bhavinpatel242846@gmail.com | LinkedIn | GitHub

TECHNICAL SKILLS

Languages: C++,SQL (Postgres), Java, HTML/CSS
Frameworks/Libraries: React.js, Node.js, Express.js,Bootstrap,Tailwind CSS
Developer Tools:Git, GitHub, VS Code, Linux, VirtualBox
Relevant Coursework: Data Structures, Computer Architecture, Computer Networks, Operating Systems, OOPs, DBMS

PROJECTS

PredictiCare | *React, Django, PostgreSQL, SVM*   *Feb 2025 – Apr 2025*
- Architected a full-stack medical diagnosis platform used by 300+ users, providing real-time predictions from input symptoms with >85% model accuracy.
- Engineered RESTful APIs to bridge frontend-backend communication, reducing API latency by 30% using optimized Django queries.
- Implemented secure authentication via Django auth system, supporting encrypted login and persistent patient records in PostgreSQL.
- Trained and deployed a Support Vector Machine (SVM) classifier, achieving 89% precision in detecting 10+ disease classes.

TrackMyFunds | *React, Express, MongoDB*   *Feb 2024 – Jun 2024*
- Developed a personal finance tracker with 20+ interactive UI components, enabling users to log 1000+ transactions monthly.
- Integrated JWT-based user authentication and role-based access control, improving session security and reducing unauthorized access by 90%.
- Visualized financial trends via dynamic charts, increasing user retention by 40% through intuitive budget insights.
- Optimized backend API calls and implemented React Hooks for seamless CRUD operations with MongoDB, reducing state update lag by 45%.

Textual Fingerprinting – Human vs AI Writing | *BERT, Machine Learning, NLP*   *Aug 2023 – Oct 2023*
- Developed an NLP pipeline achieving 91% accuracy in classifying text as AI- or human-generated using a fine-tuned BERT model.
- Preprocessed 10K+ text samples via tokenization, embedding, and stopword removal, ensuring high-quality input vectors.
- Trained model with stratified 5-fold cross-validation, yielding an F1-score of 0.89 and improving recall by 25% post-optimization.
- Applied grid search and early stopping to fine-tune hyperparameters, reducing training time by 35% while preventing overfitting.

EXTRA-CURRICULAR

- Awarded Player of the Tournament among 60+ participants in an inter-college cricket championship for scoring 280+ runs and taking 7 wickets.
- Led a 15-member team as Tech Lead of the Mozilla FireFox Club, organizing 10+ workshops and mentoring 20+ juniors in web development and open-source contributions.
- Secured top 5% position in Round 1 of HackVega, a national-level hackathon with over 2,000 participants, by solving real-world technical problem statements.
- Achieved Runner-up in BugOff Hackathon (8-hour sprint); resolved 10+ critical bugs and added 5 new features to a production-grade ReactJS application using Git-based collaboration.

EDUCATION

VIT Bhopal University   Bhopal
B.Tech in Computer Science and Engineering – CGPA: 8.84   *Nov 2022 – Present*