Karajanagi Shankar Piragonda

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Summary

Computer Science undergraduate with strong foundation in front-end development, database management, and software engineering principles. Experienced in building web applications using Java, Python, HTML/CSS, React, and MySQL with a focus on secure authentication, optimized performance, and scalable architecture. Skilled in object-oriented programming, data structures, and capable of delivering end-to-end solutions from conception to deployment.

Education

CMR University *2022 – 2026*
B.Tech in Computer Science Engineering (CGPA: 8.9+) *Bangalore, India*

Technical Skills

- **Programming:** Java, Python, SQL
- **Web Development:** HTML5, CSS3, React, Responsive Design
- **Database:** MySQL, Database Optimization, Query Design
- **Development Concepts:** OOP, DSA, DBMS, OS, Multithreading
- **Tools & Platforms:** Git, GitHub, VS Code, IntelliJ, Eclipse
- **Soft Skills:** Problem Solving, Quick Learner, Attention to Detail, Teamwork, Communication, Adaptability

Projects

Airline Pricing Seat Prediction System [Link] *November 2025*
Python, Machine Learning, LightGBM, Pandas
- Predicted airline ticket prices using 300K+ flight records and achieved 85% accuracy via LightGBM and advanced feature engineering.
- Analyzed flight datasets to identify pricing drivers such as lead time, route demand, class, and stops.
- Created 30+ predictive features using temporal patterns, route popularity, and booking urgency to enhance model accuracy.

Bitcoin Price Prediction [Link] *August 2024*
Python, Pandas, NumPy, Scikit-learn, TensorFlow
- Built models to predict Bitcoin prices using regression and deep learning techniques.
- Performed data preprocessing, feature engineering, and exploratory analysis on historical crypto datasets.
- Compared Linear Regression, Random Forest, and LSTM models to evaluate and optimize performance.

Plan and Trip - Travel Booking Frontend [Link] *2025-Present*
React, CSS, JavaScript, Responsive Web Design
- Designed and implemented a modern responsive frontend for a travel booking web app with React.
- Built dynamic UI for destination search, trip planning, booking forms, and payment summary.
- Integrated interactive features such as animated navigation bar, modals, form validation, and attractive backgrounds using advanced CSS.
- Developed a user-friendly, mobile-first interface with a focus on usability and visual polish.

Certifications & Achievements

- NPTEL – Database Management Systems *2024*
- Infosys Springboard – Software Engineering *2024*
- Infosys Springboard – E-R Modeling *2024*
- Python From Hackerrank *2024*
- LeetCode – Top 400k Rank *2025*
- CMR University Tech Fest Volunteer *2024*

Leadership & Activities

- **Coding Club Member** – Active participant in weekly problem-solving and peer mentoring sessions focused on DSA and competitive programming.
- **Tech Fest Volunteer** – Assisted in coordinating workshops and hackathons at CMR University, managing logistics for 200+ participants.
- Participated in NVIDIA Virtual Workshop on GPU computing and deep learning.