Sanjay Jithesh

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Education

VIT Bhopal University - Bhopal, Madhya Pradesh
Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence and Machine Learning)
Cumulative GPA: 8.73/10   Expected Graduation: May 2026

Indian Community School Kuwait – Kuwait
12th Standard - CBSE Percentage: 92%   Jul 2022
10th Standard - CBSE Percentage: 92%   Jul 2020

Skills & Interests

- **Programming Languages:** Python, Java, JavaScript, SQL
- **Web Technologies:** HTML, CSS, React, Tailwind CSS, Flask, GSAP
- **Frameworks & Tools:** MySQL, Microsoft Office, Pandas, NumPy, Scikit-Learn, Matplotlib
- **Areas of Expertise:** Full-Stack Web Development, Critical Thinking, Debugging
- **Interests:** Artificial Intelligence, Machine Learning, Full-Stack Development

Projects

- **Fake URL Detection using Machine Learning Models**
  - Engineered a high-performance browser extension to identify malicious URLs in real-time, deploying a suite of machine learning models including Logistic Regression, Random Forest, and SVMs for robust threat detection.
  - Achieved high predictive performance by fine-tuning multiple classifiers and validating the system's effectiveness.

- **Formula 1 Race Result Predictor using Machine Learning**
  - Built a machine learning model using a Random Forest Regressor to predict Formula 1 race outcomes from historical data including grid positions, final standings, and lap times, achieving an R^2 score of 0.64.
  - Preprocessed multi-season data from the Ergast API and engineered features to reveal strong relationships between qualifying metrics and final race performance.

- **Safe Route Mapping Application**
  - Developed a full-stack web application using React and Python APIs to suggest safe travel routes based on crime data.
  - Designed and implemented backend services that analyze historical crime reports to compute area-specific severity scores.
  - Provided users with dynamically updated, low-risk navigation options and detailed safety insights along their journey with interactive frontend maps.

Co-Curricular

- **Participant, 1st Industrial Conclave Hackathon, VIT Bhopal:** Gained valuable experience in a competitive hackathon environment, focusing on industrial challenges.
- **Co-author, Research Paper on Sign Language Translation Accuracy Using AI:** Contributed to research efforts in AI, specifically in improving sign language translation accuracy.

Extra-curricular

- **House Captain in School:** Led one of four school houses, organizing events like march-pasts and guiding the house in various inter-house competitions.
- **Co-organized Cultural Event in School**: Played a key role in planning and executing the annual cultural event, demonstrating strong organizational, teamwork, and leadership skills.

Languages Known: English, Hindi, Malayalam