

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: 8.71/10

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
- Data Analysis & Machine Learning:** MySQL, Pandas, NumPy, Scikit-Learn, Matplotlib, TensorFlow, Keras
- Interests:** Artificial Intelligence, Deep Learning, Full-Stack Web 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.
- 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