

VIJAY KUMAR SINGH

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Skills

Java | JavaScript | DSA | NodeJS | React | MongoDB | Python | Flutter | Computer Vision | MySQL | Git | Restful APIs | Web Development

Education

Vishwakarma Institute of Technology Pune, India
2020 - 2024

- Electronics and Telecommunications | CGPA: 8.12

Army Public School, Dehu Road, India
2018 - 2019

- CBSE (Class XII), Aggregate: 93.33%

Army Public School, Dehu Road, India
2016 - 2017

- CBSE (Class X), CGPA: 10

Projects

Tapam

- Created a crowd funding web application for students using **Javascript, MERN stack, HTML, CSS**.
- Integrated a payment system using **Razorpay**.
- Established user authentication and security using **OAuth2 and Passport**.
- With **50+ users** and **2000 INR** in transactions.

Upakrtih

- Created a mobile app to ping location of an emergency situation using **Flutter, Dart, MongoDB, Geolocator, Mailer**.
- Added emergency response procedures to assist during an emergency.
- Implemented interface for organising blood donations camps and organ donation camps.
- With **100+ downloads** over the internet.

Saving the Great Barrier Reef

- Created a computer vision program to detect Crown Thorn Starfish.
- Created feature extraction model using **SIFT and ORB**.
- Trained SVM, Decision Tree and Random forest models using the extracted feature and obtained highest accuracy of **95.6 % with SIFT and Random Forest**.

Sports Biomechanics

- Made a human body vitals capturing device.
- Contributed in a program, **integrated sensors to ESP32** modules using **embedded C**.
- Contributed in creating a **BLYNK application** for transmission of sensor data to the user.

Work Experience

DevTown | Data Analyst Intern

Jun'21 - Aug'21

- Worked on a project for **Employee Attrition Prediction**.
- Created a **Logistic Regression** and **Decision Tree** model with **91%** and **94% accuracy** respectively.
- Implemented **Decision Tree** model for employee retention prediction, leveraging various input parameters to estimate the duration of their tenure.

Publications

[1] Saving the Great Barrier Reef

International E-Conference on computing and Data Science (ICCDs 2023)

[2] Sports Biomechanics

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Extracurricular Activities

Social Welfare and Development | Volunteer

Sep'20 - Dec'20

- Helped in spreading awareness and safety measures about different natural and man-made calamities.

Knights FC | Football Player

2016 - present

- **Winner Supido Football League**