# Punya Saraogi

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## WORK EXPERIENCE

**SpatioWorld**                                                                              **(July 2024 – Ongoing )**

*Geographic Information System Intern.*

- **Launched** a blockchain-based system for secure property transactions, **cutting** costs by 30% and **boosting** security by 50%.
- **Designed** an intuitive GIS interface using ArcGIS and Leaflet.js, **elevating** user satisfaction by 30% and **enhancing** productivity by 20%.
- **Implemented** automated contract execution using Solidity, **reducing** transaction processing time by 40% and **ensuring** transparency.

**Omdena**                                                                              **(October 2022 – March 2024)**

*Team Member.*

- **Championed** the completion of a machine learning project, **enhancing** data validation tasks and **optimizing** models, **resulting** in a 40% increase in prediction accuracy and 25% reduction in processing time.
- **Orchestrated** a data-driven research project utilizing advanced analytics tools, **crafting** 6+ interactive dashboards that **enhanced** decision-making processes and **generated** key insights for strategic decisions.
- **Directed** focused upskilling initiatives in Mathematics & Statistics, Research, GIS Technology, and YOLO Models, **leading** to a 45% increase in project throughput and **elevating** team expertise in specialized technologies.

## PROJECTS

**Heart Attack Prediction Website using ML:**                                      **(September2023 -May2024)**

- **Engineered** a predictive model for heart attack risk using data analytics, **achieving** a 75% accuracy rate.
- **Leveraged** Python with Scikit-learn and TensorFlow for data preprocessing, feature selection, and model training.
- **Developed** a real-time prediction web interface with Flask, **enhancing** accessibility and usability.
  Link: **github**

**Monitoring Water Quality of Bhopal using Satellites :**                            **(October 2022 – March 2024)**

- **Harnessed** Google Earth Engine (GEE) to **extract** data from over 100 satellite images.
- **Performed** comprehensive analysis and **crafted** 20+ visualizations to identify trends and anomalies.
- **Collaborated** with a team of 50+ professionals on Omdena, an open-source collaborative platform.
  Link: **github**

**Expression Detection Using Hand Gestures :**                                      **(April 2022 – August 2023)**

- **Engineered** a system to recognize hand gestures using varied hand patterns.
- **Augmented** communication for physically challenged individuals, **improving** their interaction capabilities by 50%.
- **Tackled** hearing impairment issues, **providing** an effective solution for over 1,000 users.

## EDUCATION

**VIT Bhopal University** *(Sehore, MP)*                                            **(June 2021 - July 2025)**

*B.Tech in Computer Science and Engineering with CGPA: 8.75*

- Co-lead Social Media & Marketing, **iOS Club** ; Outreach Member, **Devcode Community**

## SKILLS

- **Technical Skills:** Data Science, Remote Sensing (GIS), Data Analytics, Python, Excel, SQL, Java, Web3, UI/UX.
- **Certifications:** BITS and BYTES of Computer Networks (Coursera, **Dec 2022),** Cloud Computing (NPTEL **,Jan 2024)** .

## ACHIEVEMENT

- **Internshala Student Partner (2022 – Sep 2022): Led** 10+ marketing campaigns and interactive events, **elevating** campus engagement by 50% and **increasing** program participation by 30%.
- Organized **a tech conference attended by 500+ participants,** securing **10+ industry sponsors.**