Punya Saraogi

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WORK EXPERIENCE

SpatioWorld   **(July 2024 – Aug 2024)**
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.

Monitoring Water Quality of Bhopal using Satellites :   **(October 2022 – March 2023)**

- 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.

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

Vellore Institute Of Technology   **(June 2021 - July 2025)**
B.Tech in Computer Science and Engineering with CGPA: 8.82

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

SKILLS

- **Technical Skills:** Data Science, Remote Sensing (GIS), Data Analytics, Python, Excel, SQL, GIT, Tableau
- **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.