



ROCHAK SHARMA

+91-9868613844

Rochaksharma@live.in

ABOUT

A seasoned professional with a rich background in developing safe and smart defense and transportation systems. With expertise in GIS systems, Python programming, and data science, I have spearheaded projects integrating location intelligence and spatial analytics to facilitate informed decisions. My portfolio includes a range of projects focusing on enhancing economic performance, safety, and environmental sustainability through innovative technology solutions.

EXPERIENCE

ALTZ TECHNOLOGIES

June 2022 - Aug 2023 (Full Stack GIS Developer)

Skills: Python Programming, REST/SaaS Development, GIS Systems, Spatial Analytics, Computer Vision

- Developed and maintained GIS systems integrating location intelligence and spatial analytics, enhancing defense strategies and informed decision-making.
- Tree Counting project, utilizing computer vision over QGIS plugin to count trees from satellite images on Google Maps using Deep Learning.
- Spearheaded the Military Vision project, integrating CCTVs into a custom 3D GIS portal for enhanced species identification and surveillance.

HENRICH ELECTRONICS CORPORATION

Jan 2021 - June 2022 (Software Engineer and Data Scientist)

Skills: Python Web Development, CRM Development, Transportation Systems, Communication Technologies Integration

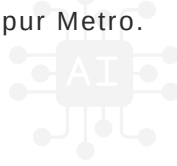
- Developed dedicated software solutions for smart and safe transportation systems, enhancing economic performance and safety.
- Managed projects integrating information and communication technologies with transport infrastructure, improving mobility and environmental sustainability.

SKILLS

Backend Developer • Python • Object Detection • Flask • Django • Jenkins • Keras • FastAPI • Databases (sql/mongo) • Embedded Systems • RaspberryPi/ARM



- Key projects: CRM and Python web-based projects, Public Addressing and Integrated Announcement Systems for Delhi and Nagpur Metro.

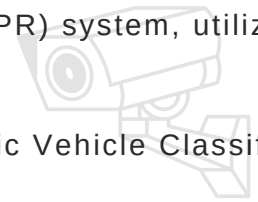


GREENTECH ITS

Sep 2019- Sep 2021 (Data Scientist)

Skills: Data Science, Machine Learning, Computer Vision, Optical Character Recognition (OCR), Artificial Intelligence & Deep Learning

- Developed smart transportation systems integrating cutting-edge technologies to enhance safety and economic performance.
- Led the development of the Automatic Number-Plate Recognition (ANPR) system, utilizing OCR, computer vision, and machine learning technologies.
- Key projects: Automatic Traffic Counter & Classifier (ATCC), Automatic Vehicle Classification (AVCC), and Video Incident Detection System (VIDS).

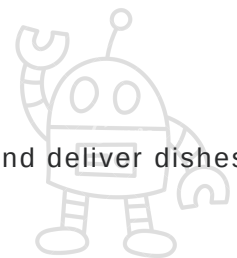


AMRANI ROBOTICS PVT. LTD

July 2017-Sep 2019 (Project Engineer)

Skills: Artificial Intelligence, Cloud Computing, Object Detection, Interactive Technology Integration

- Develop a kitchen robot aimed at revolutionizing the culinary industry. The robot serves as a personal kitchen assistant, capable of:
 - Detecting objects using advanced AI technologies.
 - Responding to user inputs through an integrated speaker system.
 - Beaming videos/images through a built-in projector.
 - Cloud connectivity for seamless updates and data management.
- Our vision was to reshape the way restaurants design, prepare, manage, and deliver dishes across multiple cuisines, enhancing efficiency and customer experience.



EDUCATION



GRADUATE -INDERPRASTHA ENGINEERING COLLEGE
2013 - 2017

B.tech in EEE from AKTU

MODERN SCHOOL

Senior Secondary education



GITHUB

<https://github.com/Rochak-Sharma>

