

Work Experience

Data Science-Project	CereBulb India Pvt Ltd	July 2022 – May 2023
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Gandhinagar , Gujarat

- Creating various image processing, regression & classification projects .
- Creating machine learning & deep learning models to predict and classify the system failures.
- Creating forecasting model.
- Dockerizing developed models to be moved into production.
- Automating workflows.
- Designing dashboards for end users.

Teaching Assistance	Pandit Deendayal Energy University	Aug 2021 – May 2023
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Gandhinagar, Gujarat

- Led laboratory sessions, demonstrating experimental techniques and assisting students in conducting experiments
- Assisted the professor in developing and delivering lectures for undergraduate/graduate courses.
- Graded assignments, exams, and papers, providing detailed feedback to students to support their learning and improvement.
- Assisted in organizing and proctoring exams, ensuring a fair and secure testing environment.

Education

Gandhinagar, Gujarat	Pandit Deendayal Energy Univeristy	Aug 2021 May 2023
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- M.Tech. in Data Science. GPA: 9.66

Ahmedabad, Gujarat	Silver Oak College of Engineering & Technology	Aug 2017 Apr 2021
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- B.Tech. in Computer Engineering. GPA: 9.15

Projects

- **Predicting Remaining Useful life of Air-filters [Final Year Thesis]** Contributed to a project aimed at predicting the remaining useful life (RUL) of air filters in the mining industry to reduce breakdowns and maintenance Proposed a solution to the problem by developing a model to predict the RUL of the filter Utilized a method that identified cycle changes and estimated RUL based on the rate of KPA increment. Tableau, Python
- **Radiator Fault Detection** Mining truck radiator fault detection project based on Computer Vision. We worked on thermal images dataset, OCR Extraction, Applied ML/DL Models. Our approach was based on thermal detection of 2 core radiators for 994H caterpillar trucks preventive maintenance procedures to help forewarn unscheduled downtime, reduced PCR(Polymerase Chain Reaction) or even catastrophic engine or converter failures due to high operating temperatures. OCR, Python, Computer Vision
- **IIOT Projects** Developed a vacuum pump failure prediction system Worked on Yield Improvement Conducted analysis and developed a solution for predicting chiller power consumption. Python, Celery, Pi Server

- **Chemical Impurity Reduction** Contributed to a project aimed at reducing impurity levels in industrial-use chemicals Utilized Golden Tunnel data to inform project objectives Worked on optimizing phase-wise and batch manufacturing processes to achieve project goals Python, Tableau

Skills

- Programming Language/other skills: Python, R, SQL, Git, HTML, Neo4j, Data Bricks
- Python Packages: Pandas, Numpy, Matplotlib, Scikit learn, Scipy, PySpark
- Designing: Adobe photoshop, Adobe Illustrator, Figma

Certifications

- **Geo-processing using Python** (IISR-ISRO) Jan 2022
- **Fundamentals of Accelerated Computing with CUDA C++** (NVIDIA) Aug 2022
- **ICSI Cyber Security Essentials** (ICSI) May 2018
- **GCP-Architecting with Google Compute Engine** Feb 2020