

EDUCATION

Master of Science in Computer Science

Arizona State University, Tempe, AZ

Graduating May 2023

GPA 4.22/4

Relevant Coursework: Data Mining, Data Science for System Decision Analytics, Data Processing at Scale

Bachelor of Engineering in Computer Science and Engineering

University of Mumbai, Thakur College of Engineering and Technology (TCET), Mumbai, INDIA

Aug 2017 - Jun 2021

CGPA 9.31/10

SKILLS

Languages : Python, SQL, SAS, HTML/CSS, R
Frameworks : BigQuery, Django, Git, AWS, Google Cloud Platform, Google Marketing Platform, PostgreSQL, PowerBI, JIRA, Tableau, PyTorch
Libraries : Pandas, NumPy, Scikit-learn, NLTK, OpenCV, Matplotlib, Keras
Technical Skills : Machine Learning, Data Science & Analytics, Data Structures & Algorithms, Database Management Systems

PROFESSIONAL EXPERIENCE

Graduate Services Assistant Data Science Research Aide - *SCAI at Arizona State University*

Aug 2022 – Current

Responsibilities include -

- Analyzing **Arizona's Medicaid data** to enable data-driven informed decisions.
- Researching and curating a timeline that reflects changes made during the past **5 years** and the **impact of COVID-19** on **Opioid Use Disorder** policies.
- Providing **project management** support and assistance to ensure project progress and effective communication with key stakeholders for the **State Opioid Response (SOR)** project.

Machine Learning and Artificial Intelligence Specialist Assistant - *EdPlus at Arizona State University*

Mar 2022 – Aug 2022

- Developed Machine Learning **predictive models** to **track and predict** students' performances over the semester for various courses.
- Aggregated student data to perform **quantitative analysis** from various data sources and transformed them into **actionable insights**.
- Produced data to **promote student success** by providing target audience lists of students to receive **interventions** based on the **predictions**.
- Reduced fetch and load time by **65%** by successfully reproducing SQL queries for Google Data Studio dashboards in BigQuery.
- Leveraged **Google Analytics** and **BigQuery** to track and analyze **web behavior and activity** aimed at increasing prospective student enrollments for the ASUOnline website.

Machine Learning Intern - *iPing Data Labs, INDIA*

Aug 2021 – Nov 2021

- Developed a **deep learning** powered **Automated Invoice Data Extractor** for an Australian client using Python to detect and extract valuable information from digital energy invoices using **Computer Vision** and **NLP**, eliminating manual labor by **80%**.
- Trained an **Object Detection** model to localize **10+ relevant data points** in **25+ invoice formats** and achieved **95%+ F1-Score**.
- Developed and trained various machine learning models for **spatial text detection**, **keyword extraction** and **company and table identification and classification** on energy bills and performed **statistical inferencing** on the results to match stakeholder expectations.
- Devised a parsing algorithm to **extract and structure data** from invoice PDFs using Tabula, OCR, and Regex to **engineer model data** for training.
- Interpreted **1,25,000+ images** from CCTV feeds to detect **7 object categories** during **day and night** for **Traffic Detection and Tracking**.

Team Lead and Python Developer Intern - *TinkTank, INDIA*

May 2020 – Dec 2020

- Led a **team of 4** interns and contributed heavily to brainstorming and executing an end-to-end workflow to build an analytics tool that enables recruiters and hiring managers to **analyze, track and visualize** team performance metrics/KPIs.
- Implemented a **Business Rule Engine** in Python that performed **Custom Data Validation** on **40+ attributes** to obtain clean data for **visualization using custom dashboards** for each user type.
- Designed and developed the **ETL pipeline** to **map data** from **complex datasets and multiple data sources** using PostgreSQL and Django.

PROJECTS AND RESEARCH

Analysis of Machine Learning Models for Road Traffic Accidents, *Academic Project*

Feb 2022 – May 2022

- Led and implemented an **end-to-end** Machine Learning project pipeline to **classify** Accident Severity from a **highly imbalanced dataset**.
- Scrutinized four **predictive models** and boosted the model accuracy up to **84%** by incorporating **hyper-parameter tuning**.
- Evaluated the models using **Cross-Validation**, and performed **Feature Importance** to make informed conclusions.

Plant Disease Identification and Prediction, *Undergraduate Major Project*

Jun 2020 – Apr 2021

- Trained a CNN model with **89% accuracy** on images captured on-ground to classify Diseased and Healthy Crop Leaves.
- Established a User Interface to visualize the model performance and deployed it on Heroku.

ShapeNSoul (Mobile Application), *Personal Project*

Dec 2020 – Jan 2021

- Developed a Mobile Application using Flutter and Firestore for a Naturopathy Clinic to facilitate appointment scheduling, notification alerts, and personalized profile and diet charts for each patient.

National Stock Exchange (NSE) daily report downloader, *Personal Project*

Oct 2020 – Nov 2020

- Automated daily report downloads from the NSE website using Tkinter to minimize repetitive human interventions and increase efficiency by **70%**.

Augmented Reality for Crime Scene Investigation, *Research Paper Presentation*

Feb 2018

- Researched, analyzed and presented the impact of various Augmented Reality technologies and potential challenges in their implementation.

CERTIFICATIONS

Google Data Analytics Professional Certificate, Google, Coursera | **Advanced Google Analytics**, Google Analytics | **Deep Learning Specialization**, deeplearning.ai, Coursera | **Python 3 Specialization**, University of Michigan, Coursera | **Introduction to Machine Learning**, IIT Madras, NPTEL

EXTRA/CO-CURRICULAR ACTIVITIES

- Student Representative and Member**, Board of Studies - TCET Jan 2019 - Dec 2020
- Publication Head**, Computer Society of India (CSI-TCET) Aug 2018 - May 2019
- Social Volunteer**, Extension Work Team (EWT-TCET) Aug 2018 - May 2019
- Chief Organizer**, Zephyr - Annual Techfest Aug 2019 - Sep 2019
- Editor**, The Byte (College Magazine) Aug 2017 - May 2018
- Delegate**, TCET Model United Nations Conference Sep 2017