

EDUCATION

Master of Science in Computer Science (Specialization in Artificial Intelligence) Arizona State University, Tempe, AZ <i>Relevant Coursework: Statistical Machine Learning, Introduction to Deep Learning, Data Mining, Data Science for System Decision Analytics</i>	Jan 2022 - Dec 2023 CGPA 4/4
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

PROFESSIONAL EXPERIENCE

Data Engineer Intern - Amazon <ul style="list-style-type: none">Reduced costs by 40% and improved performance by 80% for ETL pipelines and Redshift Clusters, increasing the efficiency of benchmark setting for Amazon Fulfillment Centers through an elaborate dashboard.Optimized identification and rectification of performance detrimental gaps and incorrect keys in sub-par jobs and queries.Proposed innovative AI integration strategies to stimulate growth and promote innovation within existing organizational projects.	May 2023 - Aug 2023
Research Analyst - Luminosity Lab <i>Rodel Project -</i> <ul style="list-style-type: none">Conducted research and performed analysis on predictive tax models, to integrate into an innovative interactive simulation tool for Arizona policy planning, aiding in informed decision-makingDeveloped and optimized the user interface using ReactJS and Three.js to improve user experience and responsiveness by 28%.Implemented a KD-Tree Nearest Neighbor model to accurately assign students to schools by considering factors like proximity and school capacity.	Jan 2023 - Dec 2023
Data Science Research Assistant - Arizona State University <ul style="list-style-type: none">Analyzed Arizona's Medicaid data, policy changes over the past 5 years, and impact of COVID-19 on Opioid Use Disorder.Identified patterns in treatment gaps to evaluate program effectiveness and remission rates of currently enrolled patients.Strategically managed project progress and directed stakeholder communication for a critical State Opioid Response (SOR) initiative.	Aug 2022 - Dec 2022
Machine Learning and Artificial Intelligence Specialist - EdPlus <ul style="list-style-type: none">Developed and deployed CatBoost classification models to identify and support at-risk students, increasing success rates by 12% over a semester.Contributed to student success by providing targeted audience lists of students who require interventions based on the model predictions.Leveraged Google Analytics and BigQuery to track and analyze web activity aimed to increase prospective enrollments for ASUOnline.Reduced fetch and load time by 65% by successfully reproducing efficient SQL queries for Google Data Studio dashboards in BigQuery.	Mar 2022 - Aug 2022
Machine Learning Intern - iPing Data Labs <ul style="list-style-type: none">Developed a Deep Learning powered Automated Energy Invoice Data Extractor using Computer Vision and NLP, reducing manual labor by 80%.Trained CNN models to semantically identify and localize over 10 relevant data points in 25+ invoice formats, achieving 95%+ F1-Score.Devised a parsing algorithm to extract and structure data from invoices using Tabula and OCR 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.	Aug 2021 - Nov 2021
Team Lead and Software Development Intern - TinkTank <ul style="list-style-type: none">Led and built an analytics tool that enables recruiters to analyze, track and visualize team performance metrics/KPIs.Successfully implemented a robust Business Rule Engine to ensure custom data validation across 40+ critical attributes, for user-specific dashboard visualizations.Designed and developed the ETL pipeline to map data from complex datasets and multiple data sources using PostgreSQL and Django.	May 2020 - Dec 2020

PROJECTS AND RESEARCH

Visualization System for Interpretability of Adversarially-trained Deep Learning Models, Academic Research Project <ul style="list-style-type: none">Designing a visualization system for deep learning models that are trained to resist adversarial attacks and remain interpretable.Comparing the performance of regularly and adversarially trained ResNet-18 model with Pytorch on CIFAR10 dataset and using "concepts" to test their interpretability retention.	Sep 2023 - Present
Analysis of Machine Learning Models for Road Traffic Accidents, Academic Project <ul style="list-style-type: none">Led and implemented an end-to-end Machine Learning project pipeline to classify Accident Severity from a highly imbalanced dataset.Scrutinized four predictive models including KNN and Decision Trees and boosted the model accuracy up to 84% by incorporating hyper-parameter tuning.	Feb 2022 - May 2022
ShapeNSoul (Mobile Application), Personal Project <ul style="list-style-type: none">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.	Dec 2020 - Jan 2021

CO-CURRICULARS

Scholarship Reviewer, Grace Hopper Celebration (GHC) 2023 AnitaB.org	May 2023
Travel Grant Reviewer, Graduate and Professional Association (GPSA) - Arizona State University	Mar 2023 - Present
Volunteer (MC) - Open Data Science Conference , San Francisco	Nov 2022
Social Volunteer, Extension Work Team (EWT-TCET)	Aug 2018 - May 2019

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

SKILLS

Languages	: Python, SQL, HTML/CSS, JavaScript, C/C++, Java
Libraries	: Pandas, NumPy, Scikit-learn, NLTK, OpenCV, Matplotlib, Keras D3.js, Three.js
Technical Skills	: Machine Learning, Data Science & Analytics, Data Structures & Algorithms, Database Management Systems, GenAI, LLMs, MLOps
Frameworks	: BigQuery, Django, Git, AWS, GCP, Google Marketing Platform, PostgreSQL, JIRA, Tableau, PyTorch, Tensorflow, Firebase, LangChain