

YASHASHWITA SHUKLA

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EDUCATION

University of California San Diego, La Jolla, CA

Sep 2022 – Dec 2023

Master of Science, Data Science

GPA: 3.96

- **Relevant Courses:** Data Science in Biomedicine, Intro to Visual Learning, Machine Learning, Statistical Models, Algorithms for Data Science, Probability & Statistics, Data Management, Scalable Data Systems, Numerical Linear Algebra.

Bharati Vidyapeeth University, Pune, India

Jul 2014 – Jun 2018

Bachelor of Technology, Information Technology

GPA: 9.54

- **Relevant Courses:** Data Structures, DBMS, Design and Analysis of Algorithms, Neural Networks, Distributed Systems.

SKILLS

- **Languages:** Python (Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch), R, SQL, Java, Node.js.
- **Machine Learning:** Forecasting, Optimization, Regression, Classification, Computer Vision, GANs.
- **Databases:** MySQL, PostgreSQL, DynamoDB, Teradata, Cassandra, Neo4j, MongoDB.
- **Visualization:** PowerBI, Tableau, Streamlit.
- **Cloud & Development:** AWS, Git, Docker, GraphQL, Talend, Dask, ApacheSpark.

EXPERIENCE

Arya Lab at University of California San Diego

La Jolla, CA

ML Researcher

May 2023 – Present

- Researching and optimizing sparse dataset classification using logistic regression and projected gradient descent.
- Determining minimum sample requirements for accurate classification to enhance efficiency in real-world applications.

Hnasko Lab at University of California San Diego

La Jolla, CA

Student Research Engineer

May 2023 – Present

- Automating volitional vapor inhalant paradigm experimental setup and data collection using MedPC, Arduino, and Python.
- Managing and analyzing datasets to derive meaningful insights into nicotine addiction.

Accenture

Bengaluru, India

Senior Analytics Consultant

Oct 2021 – Aug 2022

- Deployed an Intelligent Active Merchandize Markdown solution across 8 customer groups under a Fortune 500 Fashion Retail Firm.
- Fabricated an AI solution to forecast fabric & style performance, enhancing both design and purchasing strategies while reducing waste.
- Forecasted commodity prices for up to six months with 96% accuracy to help businesses create an efficient purchase plan.
- Supervised junior team members in developing Machine Learning models throughout short and long-term projects.

Accenture

Bengaluru, India

Analytics Consultant

Oct 2020 – Sep 2021

- Optimized transportation routes along with Vendor and Rate Contract Analysis, resulting in cost savings of \$25 million annually.
- Led the development of a go-to-market solution for Vendor Management and Inventory Optimization, ensuring improved efficiency.
- Reduced time-to-market chemical products by 75% through strategic experiment planning and adaptive learning.

Accenture

Bengaluru, India

Business Analyst

Jul 2019 – Sep 2020

- Engineered an interactive Spend Analytics Solution to identify savings opportunities and recommend an efficient Purchase Order Plan.
- Created a reporting dashboard to monitor Spend, Supplier Quality, Inventory levels, and consumption of 1500+ commodities.

Accenture

Bengaluru, India

Data Analyst

Jun 2018 – Jun 2019

- Developed and maintained ETL jobs to automate the extraction of data from clients' CRM to PostgreSQL Database.
- Implemented Rest and GraphQL APIs utilizing Spring Boot and AWS AppSync for Mobile and Web Applications.

ACADEMIC PROJECTS

Visualizing the Impact of Layoffs (Python, Streamlit)

Jul 2023

- Conducted a comprehensive visual analysis to examine the global impact of layoffs since 2020.
- Utilized interactive visualizations to present valuable insights into the affected sectors, geographical distribution, and trends.

Text to Image using DCGAN (Python, PyTorch)

Jun 2023

- Synthesized images from textual descriptions using a Generative Adversarial Network inspired by DCGAN on CUBS dataset.
- Incorporated a text embedding module allowing the model to successfully learn the mapping between texts and images.

Image Compression (Python)

Dec 2022

- Performed Image Compression from scratch with Singular Value Decomposition (SVD) and Discrete Cosine Transform (DCT).
- Observed DCT resulted in less distorted images compared to SVD even at higher compression ratios.

Technology Forecasting (Neo4j, MongoDB, PostgreSQL, and Python)

Dec 2022

- Analyzed technology shift companies are adopting based on published research and filed patents.
 - Reported countries and companies contributing towards booming industries, in the last few decades.
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