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, Computer Vision, 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.
- **Cloud & Development:** AWS, Git, Docker, GraphQL, Talend, Dask, ApacheSpark.
- **Visualization:** PowerBI, Tableau, Streamlit.

EXPERIENCE

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.

Arya Lab at University of California San Diego   **La Jolla, CA**
Machine Learning Researcher   **Apr 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.

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

Mock Interview using GPT (Python, Streamlit, LangChain, GPT-3.5)   **Sep 2023**
- Orchestrated a tool which takes mock interviews based on the job description and resume provided by the user.
- Designed a user-friendly interface for the tool using Streamlit for a chatbot like interaction.

Crime Analysis of Los Angeles (Tableau)   **Aug 2023**
- Leveraged Tableau to create a decade-long crime trend analysis for Los Angeles.
- Produced informative visualizations that provide a comprehensive understanding of crime patterns across the city.

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.