

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: 4.00

- **Relevant Courses:** Data Science in Biomedicine, Intro to Visual Learning, Machine Learning, Statistical Models, Algorithms for Data Science, Probability & Statistics in Data Science, 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, Streamlit), R, SQL, Java, Node.js
- **Machine Learning:** Forecasting, Optimization, Regression, Classification, Computer Vision
- **Databases:** MySQL, PostgreSQL, DynamoDB, Teradata, Cassandra, Neo4j, MongoDB
- **Others:** PowerBI, AWS, Git, Docker, GraphQL, Talend, MS Office

EXPERIENCE

Accenture, Bengaluru, India

Senior Analytics Consultant

Oct 2021 – Aug 2022

- Deployed Markdown Optimization solution for 8 customer groups under a Fortune 500 Fashion Retail Firm using SQL, Python, and Optimization algorithms.
- Collaborated with the Fashion Designing team of a Fashion Retail Firm to help designers assess the new designs and provide the success probability metrics based on the performance of the old similar designs.
- Forecasted commodity prices for up to six months with 96% accuracy to help businesses create an optimized purchase plan by applying Time Series Forecasting, Regression, and Ensemble techniques.
- Supervised junior team members in developing Machine Learning models throughout short and long-term projects.

Analytics Consultant

Oct 2020 – Sep 2021

- Built a Sequential Design of Experiments Model to help businesses achieve better process understanding and reduced the time to market the industrial products by 75% by applying Gaussian Process Regression and Bayesian Optimization.
- Formulated an algorithm to prescribe the logistics between various sources and destinations along with Vendor and Rate Contract Analysis to improve the overall cost utilizing Python and Optimization Techniques.
- Led the development of a go-to-market solution on Vendor Management and Inventory Optimization for a Fortune 500 Manufacturer employing Machine Learning techniques in Python.

Business Analyst

Jul 2019 – Sep 2020

- Engineered an interactive Spend Analytics Solution in Python and Streamlit to identify savings opportunities and make recommendations on Payment Terms, Suppliers, and Materials for an efficient Purchase Order Plan.
- Created a reporting dashboard to monitor the Spend, Supplier Quality, Inventory levels, and consumption patterns of various commodities.

Data Analyst

Jun 2018 – Jun 2019

- Developed and maintained ETL jobs to automate the extraction of data from the client's CRM to the PostgreSQL Database with Talend Data Integration tool and Python.
- Implemented Rest and GraphQL APIs utilizing Spring Boot and AWS AppSync for Mobile and Web Applications.

ACADEMIC PROJECTS

Image Compression (Python)

Dec 2022

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

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

Dec 2022

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

PUBLICATIONS

- Y. Shukla, et al. "Big Data Analytics Based Approach to Tax Evasion Detection", International Journal of Engineering Research in Computer Science and Engineering, Volume 5, Issue 3, March 2018
 - A. Jain, S. Arora, Y. Shukla, et al. "Proof of Stake with Casper the Friendly Finality Gadget Protocol for Fair Validation Consensus in Ethereum", IJSECSEIT, Volume 3, Issue 3, March 2018
 - N. Sidhu, A. Jain, Y. Shukla, et al. "Automated Toll Collection coupled with Anti-theft and Vehicle Document Verification System using RFID and Arduino Uno", International Journal of Computer Sciences and Engineering, Volume 6, Issue 4, April 2018
 - S. Manda, Y. Shukla, et al. "A Literature Survey on Wireless Sensor Network in Home Automation Based on Internet of Things", International Journal of Computer Sciences and Engineering, Volume 6, Issue 5, June 2018
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