

DISHA LAMBA

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WORK EXPERIENCE

Mindgrasp

Data Scientist

Columbia, MD

Jan 2024 – April 2024

- Implemented AWS Lambda scripts in Python employing NLP models and knowledge-bases to answer educational queries, integrated the scripts into frontend and backend systems, resulting in 12% user growth and enhanced user experience.
- Collaborated with CTO to debug and optimize React app performance through A/B testing and performance monitoring.
- Delivered key insights via Tableau to the C-suite, driving product strategy and development decisions.

Subconscious AI

Machine Learning Engineer

New York, NY

July 2023 – Jan 2024

- Optimized Market Research tool by implementing data pre-processing, feature engineering, and decision tree algorithm using Python and SQL, achieving improvement in data quality and 83% model accuracy.
- Implemented content filtering using Hate-Speech API, achieving 90% improvement in moderation, saving 200+ hours.
- Streamlined project timelines & resource utilization in Agile and Git-based environment, enhancing development lifecycle.

Data Glacier

Data Science Intern

New York, NY

June 2022 – Aug 2022

- Developed a semantic text-ranking search engine, streamlining search processes and with 45% time-efficiency gain.
- Designed ETL pipelines to transform 1M unstructured text data into structured format for efficient data usability.
- Developed a Python-based BERT and TF-IDF ensemble model, attaining 92% accuracy in enhancing search capabilities.
- Optimized data storage & processing with AWS S3, Lambda, achieving 25% data access improvement, and cost reduction.

Sapio Analytics

Machine Learning Engineer

Mumbai, India

July 2020 – June 2021

- Spearheaded development of job-search portal for the Government of India, generating 1.2M job opportunities nationwide.
- Achieved 83% accuracy in user-job matching using sklearn K-nearest neighbor algo, tailored for user location, skillset.
- Collaborated with frontend team to integrate D3.js for data visualization, resulting in 23% increase in user engagement.
- Conceptualized and presented key results to senior leadership using Tableau, facilitating strategy development.

SKILLS

Technical: Python, R, SQL, SAS, Postgres, MySQL, Hadoop, Spark, Kafka, PowerBI, Tableau, MS Excel, Monte Carlo Simulation, TensorFlow, SciPy, NumPy, Pandas, Keras, Scikit-learn, Matplotlib, HTML, CSS, ReactJS, Flask

Data & Machine Learning: Data Warehousing, Regression, Classification, Clustering, Statistical Analysis, Time-Series Analysis

Cloud & DevOps: Amazon Web Services (AWS), Snowflake, Git, Linux, Docker

PROJECTS

Data Analytics - Portfolio Optimization (MS Excel, Tableau)

- Revamped deterministic model with Excel Solver for portfolio optimization, resulting in 18% decrease in projected cost.
- Developed Tableau dashboards for portfolio performance, risk metrics, KPIs for informed investment decision-making.

Big Data - Movie Recommendation System (Spark, SQL) [[GitHub](#)]

- Extracted valuable insights from 27M MovieLens dataset using SQL, Pandas, Matplotlib to guide feature development.
- Engineered collaborative filtering ALS algorithm in PySpark, benchmarked against LightFM and Annoy models, achieving 95% accuracy with Annoy for top-3 movie recommendations, continuously adapting to user preferences.

EDUCATION

New York University

Master of Science in Computer Engineering

NY, USA

May 2023

Coursework: Machine Learning, Deep Learning, Statistics, Big Data, Decision Optimization Models and Data Analytics

Course Assistant: Deep Learning, Computer Networking

Guru Gobind Singh Indraprastha University

Bachelor of Technology in Information Technology

Delhi, India

September 2020

Coursework: Data Structures and Algorithms, Cloud Computing, Software Engineering, Database Management Systems

ACHIEVEMENTS AND LEADERSHIP

- Best Medical Hack** at [MHacks 13 hackathon](#); developed ReactJS app to match COVID-19 patients with plasma donors.
- Former **Vice President**, NYU Machine Learning Club: Ignited machine learning interest in 30+ students.
- Conference attendee** at AWS re:Invent'23 (Scholar), Grace Hopper Celebration'23, Strange Loop'22 (Scholar).