DISHA LAMBA

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WORK EXPERIENCE

Mindgrasp **Columbia, MD**
Data Scientist Jan 2024 – Present
- Implemented AWS Lambda scripts employing NLP models and knowledge-bases to answer math and web queries, integrating them 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.

Subconscious AI **New York City, NY**
Machine Learning Developer Intern July 2023 – Jan 2024
- Optimized Market Research tool by implementing data pre-processing, feature engineering, and decision tree algorithms using Python and SQL, achieving a 30% 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 and resource utilization in Agile and Git-based environment, enhancing development lifecycle.

Data Glacier **New York City, NY**
Data Science Intern June 2022 – Aug 2022
- Developed a semantic text-ranking search engine, streamlining search processes and with 45% time efficiency gain.
- Implemented ETL and NLP methods to transform 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 **Mumbai, India**
Machine Learning Developer July 2020 – June 2021
- Spearheaded development of a 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 25% 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 (Python, PySpark, SQL) [GitHub]
- Extracted valuable insights from 27M MovieLens dataset using SQL, Pandas, Matplotlib guiding feature development.
- Engineered collaborative filtering ALS algorithm in PySpark, benchmarking against Python LightFM and Annoy models, achieving 95% accuracy with Annoy for top 3 movie recommendations, continuously adapting to user preferences.

EDUCATION

New York University **NY, USA**
Master of Science in Computer Engineering 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 **Delhi, India**
Bachelor of Technology in Information Technology 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).