DISHA LAMBA

New York, USA

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EDUCATION

New York University | New York, USA

Sept 2021 - May 2023

MSc Computer Engineering

GPA: 3.5

Relevant courses: Machine learning, Deep learning, Big data, Network Security

Bharati Vidyapeeth's College of Engineering | Delhi, India

Aug 2016 - Sept 2020

Btech Information Technology

GPA: 3.3

TECHNICAL SKILLS

Languages: Python, R, C/C++, JavaScript, Git, Linux, HTML/CSS

Tools and Frameworks: NumPy, Pandas, Scikit-learn, Seaborn, Matplotlib, PyTorch, TensorFlow, Tableau, React.js, Ruby on Rails

Databases: MySQL, PostgreSQL, MapReduce, PySpark

PROFESSIONAL EXPERIENCE

NYU Tandon School of Engineering | Course Assistant | Brooklyn, NY

Sept 2022 - Present

- Graduate Teaching Assistant for the Deep Learning course co-taught by Prof. Chinmay Hegde and Prof. Arsalan Mosenia.
- Assisting students with queries regarding lectures, assignments, and projects in addition to grading assignments and projects.
- Conducting weekly office hours encouraging lecture and project discussion amongst students for a cohort of 50 students.

Data Glacier | Data Science Intern | New York (Remote)

June 2022 - Aug 2022

- Developed a search engine that ranks unstructured text documents based on semantic & contextual relationships to user prompts.
- Proposed and built an ensemble of BERT & TF-IDF on MS Macro dataset, achieving MAP of 82.3%.

Sapio Analytics | Machine Learning Engineer | Maharashtra, India (Remote)

July 2020 - Jan 2021

- Designed a deep learning model using TensorFlow that maps the skill set of laborers with those of industry requirements across Pan-India to help them with blue-collar jobs during covid. Deep-KNN was used as a matching algorithm.
- Extracted and analyzed specific data for both industry-labor demand-supply using Python, SQL to understand industry demand.
- Developed and analyzed Tableau reports and dashboards of over 20M records using PySpark ETL scripts and hive tables.
- Integrated TensorFlow model with frontend using ReactJs to display state-wise job requirements, industry analysis, and matches.
- Initiated web application for the Govt. of India to provide 1M blue-collar jobs to Indian migrant laborers.

inDDev | Software Developer Intern | Haryana, India

June 2019 - July 2019

- Designed and implemented the frontend and backend architecture of a Content Management System(CMS) using Ruby on Rails.
- Implemented version-controlled environment in CMS; allows the admin to safeguard any changes and roll back when necessary.

PUBLICATION

Paper titled 'An Integrated System for Occupational Category Classification based on Resume and Job Matching' published in International Conference of Data Analytics & Management, Springer, June 2020 (paper)

PROJECTS

Movie Recommendation System using PySpark

- Studied over 27 million records of movie-user information, and leveraged Tableau to plot graphs, and clean data in PySpark.
- Implemented a 'collaborative filter-based movie recommendation system using Spark's ALS method, compared it with that of a baseline model as well as with single-machine implementation (LightFM) and Annoy(Approximate Nearest Neighbors).
- Tested each model for overall performance using accuracy metrics like precision at k, NDCG, MAP, and RMSE.
- Single-machine implementation performed better than the ALS method with a test MAP of 0.057 and 145.12sec to fit the model.

Dialogue-based Interactive Facial Editing via Reinforcement Learning

- Developed a dialogue-based facial editing system using reinforcement learning that allows users to specify the desired facial editing effect in a natural language and interactively accomplish the goal via multimodal dialogue with system feedback.
- To track user intention and maximize user's long-term rewards; employed policy gradient-based algorithm REINFORCE.
- Proposed a new user simulator with human evaluation to verify if the simulator can successfully simulate real user behaviors.

Plasma Desk web app - ExpressJs

- Developed Js web app, driven by doctors, that connects an eligible plasma donor with a Covid patient, based on compatibility.
- The project won the **Best Medical Hack** and **Wolfram Award for Top 30 hacks** in MHacks 13 Beta Hackathon 2020.

ACHIEVEMENTS

• 100% grant recipient for attending Strange Loop Conference'22 in St. Louis, Missouri

Sept 2022 Nov 2021

3rd position in CSAW'21 Cyber Security Games & Conference Hack3d competition.