DISHA LAMBA

New York, USA

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SKILLS

Languages: JavaScript, R, Python, C/C++, HTML/CSS
Tools and Frameworks: Ruby on Rails, React.js, PyTorch, TensorFlow, RStudio, Excel, Tableau
Databases: MySQL, PostgreSQL, DynamoDb, Hadoop, PySpark

PROFESSIONAL EXPERIENCE

Sapio Analytics | Software Developer Intern | *Maharashtra, India (Remote)* July 2020 - Jan 2021

- Developed a **job portal using ReactJs** that maps the skill set of migrant laborers with those of the industry requirements across all states of India. The project aimed to provide **1 million blue-collar jobs to Indian laborers** during the time of COVID.
- Extracted specific data from both Industry-labor demand-supply surveys and analyzed them using **D3.js** to understand state-wise industry demand and availability of labor by matching them and thus providing jobs to the laborers.
- The web application is currently being used by **Govt. of India** under the Ministry of Science and Technology. **(sakshamtifac.org)**

inDDev | Software Developer Intern | *Haryana, India* June 2019 - July 2019

- **Designed** and **implemented** the frontend and backend architecture of a **Content Management System** using **Ruby on Rails**. The admin can generate and modify dynamic web pages with minimal effort.
- Implemented a **version-controlled environment** that allows admins to safeguard any changes and roll back when necessary.

PUBLICATIONS

An Integrated System for Occupational Category Classification based on Resume and Job Matching (paper)
ICDAM - International Conference of Data Analytics & Management, Springer, June 2020

- Proposed a model that will extract vital information using **Natural Language Processing** from resumes to calculate each individual's resume score and best occupational career path. The algorithm achieved an accuracy of **83%** in the general category.

PROJECTS

Recommendation System using PySpark for MovieLens Dataset

- Built and evaluated a collaborative-filter-based movie recommendation system using Spark's ALS method. Evaluated the model's performance by comparing it with that of a baseline model as well as a single-machine implementation (LightFM).
- Performed compound scaling for hyper-parameters to detect and analyze the hidden correlation between latent factors.

Dialogue-based Interactive Facial Editing via Reinforcement Learning

- Developed a dialogue-based facial editing system via reinforcement learning that enables the system to explore long-term rewards that helps with coarse-to-fine facial editing derived from our proposed reward function.
- Built a user simulator environment to enable the policy network to interact with the user simulator as many times as desired.

Plasma Desk with ExpressJs, NodeJs

- A web platform, driven by doctors, that **connects an eligible plasma donor with a COVID'19 patient**, based on compatibility. The details of the plasma donor are stored on the platform after clinical trials have been successful.
- The web portal was developed with Firebase as its backend and served using ExpressJs.
- The project won the **Best Medical Hack** and **Wolfram Award for Top 30 hacks** in MHacks 13 Beta Hackathon 2020.

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

Bharati Vidyapeeth's College of Engineering | Delhi, India **Aug 2016 - Sept 2020**
Btech Information Technology GPA: 3.3

ACHIEVEMENTS

- **3rd position in CSAW'21** Cyber Security Games & Conference Hack3d competition. Nov 2021
- **Top 100/2000** Hacks in **Facebook Messaging Hackathon** 2020. Aug 2020