

Dhruv Agarwal

Brooklyn, NY 11209

• dhruvagar29@gmail.com • da2922@nyu.edu • [Portfolio](#) • [LinkedIn](#) • [GitHub](#) • +1-(929)-519-1367

ACADEMIC QUALIFICATIONS

New York University, New York: Master of Science in Computer Engineering (GPA:- 3.86)

Sep 2021-May 2023

- Coursework- Machine Learning, Deep Learning, High Performance for Machine Learning(HPML), NLP

Guru Gobind Singh IP University, India: Electronics & Communications Engineering

Aug 2016-Sept 2020

EXPERIENCE

Mindlance, New Jersey, USA: Machine Learning Intern

July 2023-Present

- Spearheaded the creation of a sophisticated Python library to scrape and parse LinkedIn HTML pages, leveraging RPAs for automated data extraction from user profiles.
- Developed state-of-the-art parsers for resume and job descriptions using LLMs, skillfully utilizing prompt engineering techniques and OpenAI function calling.
- Fine-tuned GPT 3.5 turbo LLM to develop a resume parsing model that extracts essential resume information into JSON format

Novaverse, New York, USA: Machine Learning / Software Engineer Intern

July 2023-Aug2023

- Developed a data pipeline by scraping fashion-related content from the client's website, employing advanced cleaning techniques, and building a No-SQL database(Supabase) for efficient storage.
- Utilized OpenAI function calling and prompt engineering techniques to curate fashion-related content and generate word embeddings using LLM (OpenAI) APIs.
- Designed a Recommendation Engine using content filtering techniques to offer personalized fashion recommendations to users.
- Contributed to the development of the App Prototype, integrating Chakra UI to the backend services

Cosmos Technology, Hoboken, New Jersey, USA: Research Intern

Jun 2022-Jul 2022

- Conducted in-depth research on cryptocurrencies and Metaverses using Python and its libraries, such as BeautifulSoup.
- Built a large-scale containerized database of 20,000 scraped cryptocurrencies records, utilizing AWS services.
- Self-taught and applied advanced web scraping techniques to gather data from various sources.

Rice Lake Weighing System, Rice Lake, Wisconsin, USA: Software Engineer Intern

May 2022-Aug 2022

- Developed and implemented a user-friendly configuration menu for a Linux-based Indicator.
- Debugged and improved help files for the indicator using JavaScript, & achieved 100% accuracy through testing and debugging.

Accenture, Delhi, India: Associate Application Developer

Feb 2021-Aug 2021

- Developed SAP PP system which monitors the production of coal.
- Reduced client's production cost by 23% through bug elimination in the CIL manufacturing unit.

TECHNICAL SKILLS

Coding Languages	Python, Java, HTML, JavaScript, SQL, Shell Scripting ,C, C++
Frameworks	Flask, React
Certifications	Python Data Structures, Getting started with python, CUDA Programming
Tools & Libraries	Linux, MATLAB, HPC, AVR, Arduino, Docker, IoT, SLURM, PyTorch, Scikit-learn, NumPy, AWS, EC2

PROJECTS

Connectify (JavaScript, React)

Apr 2023

- Developed and deployed a web application using React, Redux, and Firebase, allowing users to create profiles, connect with other users, and share posts and messages.
- Leveraged Firebase Authentication and Firestore DB to handle authentication, data storage, and real-time updates [Website Link](#)

Debiasing the Word Embeddings (Python)

Nov 2022

- Analyzed Gender and Racial biases present in Word Embeddings (Word2Vec) for English and Turkish Languages using similarity scores and natural language processing (NLP) techniques
- Successfully applied Debiasing algorithms, such as equalization, and soft and hard debiasing, to remove biases – [GitHub Link](#)

Implemented Deep learning residual networks (Python)

Apr 2022

- Trained Resnet-18 model with 5 million parameters and achieved 91% accuracy through Deep learning techniques
 - Explored various optimizers, such as SGD, Adam, RMSprop, and Adagrad, to fine-tune model performance
 - Incorporated techniques such as Data Augmentation and Input normalization to improve model robustness – [GitHub Link](#)
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