Dhruv Agarwal

Brooklyn, NY 11209

• dhruvagar29@gmail.com • 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: *Software Engineering Intern* **July 2023-Present**
- Spearheaded the creation of a 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 descriptions using Named entity recognition techniques in Python's spaCy library
- 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: *Full-Stack Developer Intern* **July 2023-Aug 2023**
- Designed and Developed a Recommendation Engine using advanced content filtering techniques in Python to provide users with highly personalized recommendations
- Contributed to the development of WebApp Prototype, integrating Chakra UI components into Python-based backend services
- Developed a data pipeline by scraping content using python libraries like Selenium from the client's website, employing advanced cleaning techniques, and building a No-SQL database(Supabase) for efficient storage.
- Utilized Python to employ OpenAI function calls for curating fashion-related details and generating word embeddings using LLMs

Cosmos Technology, Hoboken, New Jersey, USA: *Research Intern* **May 2022-Aug 2022**
- Conducted in-depth research on cryptocurrencies and metaverses using Python and its libraries, such as BeautifulSoup, Selenium
- Built a large-scale containerized database of 20,000 scraped cryptocurrencies records, utilizing AWS services
- Developed custom Python modules and scripts to gather data from various sources for the client

Rice Lake Weighing System, Rice Lake, Wisconsin, USA: *Full-Stack Developer Intern* **May 2022-Aug 2022**
- Developed a user-friendly configuration menu for a Linux-based Indicator using Python
- Debugged and improved help files for the indicator, achieved 100% accuracy by utilizing Python's unittest and logger modules

Accenture, Delhi, India: *Associate Application Developer* **Feb 2021-Aug 2021**
- Integrated SAP PP module using Python's library like PyRFC to streamline data exchange and automate processes
- Implemented Python-based data validation scripts to identify data quality issues, resulting in a 23% cost reduction for the client

---

TECHNICAL SKILLS

Coding Languages	Python, JavaScript, HTML/CSS, Java, SQL, Shell Scripting
Frameworks	Flask, React
Certifications	Python Data Structures, Getting started with python, Python Programming
Tools & Libraries	Linux, Redux, Docker, AWS, EC2, Rest APIs, SLURM, PyTorch, Spacy, Scikit-learn, NumPy, Selenium

---

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 for English and Turkish Languages using 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 using Python's Library Pytorch
- Explored various optimizers, such as SGD, Adam, RMSprop, and Adagrad, to fine-tune model performance – GitHub Link

Ethereum Transactions and Balance Using Etherscan API (Python) **Jan 2022**
- Tracked and visualized the balance of any Ethereum account using the Etherscan API and Python programming
- Plotted transactions using the Etherscan API & Python libraries such as Matplotlib for clear & concise data analysis – GitHub Link