Anand Tyagi

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EDUCATION

New York University: Bachelor of Arts in Computer Science and Data Science May 2021
Languages: Python, Kotlin, Java, Javascript, Typescript, Ruby

WORK EXPERIENCE

Flexport, *Unicorn building a web platform for freight forwarding,* Bellevue, WA Jul 2021 - Oct 2023
Software Engineer II, Customs ML Team, Legal and Compliance Technology Team, Trade Graph Data Authority Team

- Worked as the project lead and scrum master for the HTS ML Recommendation project. Built out the project plan and reviewed the architecture for the model inference API and ML model deployment pipeline.
- Led the Restricted Countries Scanning project which handles ~290k+ scans of Flexport shipments daily for prohibited countries. Organized work for 3 engineers and was responsible for the entire project lifecycle from product discovery, technical architecture design, project management, and development.
- Implemented code architecture rules using ArchUnit in order to improve our team's code quality and report code quality metrics for the team. Additionally, wrote the internal documentation for how to improve company wide code architecture and report architecture metrics using ArchUnit.
- Responsible for building the Denied Party Screening service which processes 60k entities daily to ensure all parties involved in our shipments are compliant with the legal standards they have to adhere to.
- Built a form UI for the Customs Trade Partnership Against Terrorism form that all Flexport customers have to go through. This product helped to make the form easier to fill out by providing a user-friendly interface and streamlining the annual renewal process.

Klarity, *AI start-up focused on automated customer contract review,* San Francisco, CA Jan 2021 - Apr 2021
Software Engineer Intern

- Used Python and AWS Textract to extract and display necessary information from tables in PDF documents. This was integrated into the website's automated demo.
- Wrote a Python script to extract handwritten signatures from images using OpenCV and synthetically created a dataset of signed documents to train a signature detection model.

Incedo, *Analytics and technology services firm,* San Francisco, CA Jun 2020 - Aug 2020
Data Scientist Intern

- Built models in Python for credit risk defaulting prediction. Tasked with cleaning and organizing the data, providing preliminary insights on the data, and creating linear regression, random forest, and XGBoost models to determine which applicants are most likely to default.

Gulaq, *Robo-advisory fintech startup focused on India,* Millburn, NJ May 2019 - Aug 2019
Web Development Intern, Algorithm Research Intern

- Created a survey using Javascript and React for users to input their financial information to make personalized financial investment recommendations.
- Developed a new algorithm for optimizing the investment of a lump sum of money over multiple funds with multiple constraints. Outperformed 100% of test cases against their old algorithm and is still used by the company today.

PROJECTS

What does X say about Y Nov 2023
wdxsay.vercel.app

- Built a website that allows people to ask questions against large bodies of text and provides sources used for the answer to combat against hallucinations from LLMs. Used LangChain paired with FAISS to generate natural language answers along with providing direct quotes against which the answer can be cross referenced. Used Typescript with Next.js to make the front end of the website along with Python for the backend of the website.

Using Statistical Weighting and Popularity Ranking for Extractive Summarization May 2020
Co-Author, submitted to COLING'2020

- Natural language processing research paper describing a new method for extractive summarization. The program scored as the second highest extractive-only summarization system on the Cornell NEWSROOM leaderboard. Developed and coded the novel method presented in this paper.