Aditya Pethe

adityapethe1@gmail.com linkedin.com/in/aditya-pethe
832-814-0815 github.com/aditya-pethe

EDUCATION

Texas A&M University Bachelors of Science in Computer Science GPA: 3.8
Bachelors of Science in Applied Mathematics May 2022
Westside High School SAT: 1600/1600 SAT MATH II: 800/800 May 2018

SKILLS

Languages: Python, C++, HTML, CSS, JavaScript, Java, R, SQL
Frameworks: Numpy, Pandas, Sklearn, Tensorflow, Pytorch, Selenium, Beautifulsoup, Git, Node.js

COURSEWORK

- Topological Data Analysis
- Data Structures and Algorithms
- Machine Learning
- Real Analysis/Modern Algebra
- Recommender Systems
- Statistics I & II

EXPERIENCE

Incoming Data Science Intern at Meta May 2022 – Aug 2022

Amazon Alexa Prize Developer at Texas A&M University May 2021 – Present

- **One of ten** teams Amazon selected to receive a $**250,000 grant** from Amazon to build a taskbot in **AWS Cobot**
- Use **dialogue state tracking (DST)** to make smart step navigation and produce transcripts
- Increased ratings by **10%** by smart recommendations based on user data

President at TAMU Datathon Nov 2019 – Dec 2021

- **Managed team of 20** and organized Texas A&M's flagship data science hackathon with over **300** participants
- Raised **$55,000** from sponsors and hosted the first hackathon ever at the Hall of Champions in **Kyle Field**

Data Science Intern at SmugMug & Flickr Jun 2021 – Aug 2021

- Leading independent project to predict subscribers from free trial user data
- Used various techniques (**PCA, TSNE, NN, XGBOOST**) to improve model precision and recall by **20%**
- Produced **feature importance** and **partial dependence plots** that led to direct product experimentation

Data Science Intern at Deephaven Data Labs May 2020 – Aug 2020

- Built quantitative financial models using Deephaven, a data ingestion platform that handles petabytes of real time data
- **Published 3 white papers** with Deephaven that helped increase user engagement over **35%**
- Used **Sklearn**, and **Fbprophet** to build seasonality, momentum trading, and adverse selection models.

PROJECTS

LyRec at Texas A&M University Apr 2021—May 2021

- Implementing lyric-based song recommender system using **matrix factorization**
- Using **Bag of Words**, **BERT**, and **TF-IDF** to compute pairwise similarity on 100,000 song dataset

Helping Eye at TAMUhack Jan 2020

- **Won 1st Place** for best use of Azure from Microsoft, & best interactive chatbot from Gartner
- Selected as a **finalist** overall for creating a chrome extension chatbot to assist the visually impaired navigate the web
- Developed in team using **React.js** in chrome extension, NLP and ML with Azure's LUIS API, **Node.js** for bot execution

Auto Flow at HackPrinceton Nov 2019

- **Won 1st Place** for best use of API's from Stdlib
- Selected as a **finalist** overall for creating service that uses various API's to automate tasks given a set of instructions
- Used natural language processing in **NLTK** and python to create unique **JSON** query language to process strings into trees

Full House at HackTX Nov 2019

- **Won 1st Place** for PwC hack for social good challenge, created a web app to assist homeless with inventory management
- Built backend data base by scraping thousands of Goodwill items in python and managing database in **MongoDB**

ACHIEVEMENTS

Brockman Scholar May 2018 – Present

- Full ride, merit-based scholarship, 50/5000+ applicants

Grace Hopper Celebration Scholarship Aug 2020

U.S Presidential Scholars Candidate May 2018