Aditya Pethe

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Education

Texas A&M University	B.S in Computer Science, B.S in Applied Mathematics	Aug 2018 – May 2022
	Brockman Scholar – US Presidential Scholarship Candidate – Grace Hopper Scholar	GPA: 3.8

Skills

Languages: Python, SQL, Java, C++, JavaScript, HTML, CSS, R

Frameworks/Technologies: Pandas, Numpy, Seaborn, Sklearn Pytorch, Maven, Gradle, JUnit, Mockito, Node.js, Git, Heroku

Experience

Amazon – Software Engineering Intern   Sep 2022 – Dec 2022
- **Amazon Devops Guru**, using ML for anomaly detection in application metrics to prevent operational issues
- Created **CloudFormation** resource in **Java** in using AWS (Lambda, S3, Cloudwatch etc) to support log anomaly detection

Instagram – Data Science Intern   Jun 2022 – Sep 2022
- Created privacy compliant proxy labels to train story ranking models using **Presto SQL** and **Apache Hive**
- Boosted reciprocal conversation proxies F1 scores +**13%** for story reshares, and +**50%** for story replies
- Resulted in several A/B tests, analogous offline performance resulted in **+0.13% communications DAU**

Alexa Prize Challenge – Student Researcher / Developer   May 2021 – Apr 2022
- **Coauthored** & **Published** technical paper in **Amazon Science** with an emphasis in conversationalized instructions
- **One of ten** teams Amazon selected to compete in building a conversational taskbot for the **Alexa Prize Grand Challenge**
- Boosted ratings **+10%** via smart user recommendations, implemented step navigation and transcript generation

Texas A&M Datathon – President   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**

SmugMug & Flicker Inc – Data Science Intern   Jun 2021 – Aug 2021
- Lead independent project to predict subscribers from free trial user data, **presented** at company-wide all hands
- Used various techniques **(PCA, TSNE, NN, XGBOOST)** to improve model recall **+20%**
- Created a **feature importance dashboard** that led to direct product experimentation and testing

Deephaven Data Labs – Data Science Intern   May 2020 – Aug 2020
- Used **Sklearn**, **Fbprophet,** and **Deephaven** to build seasonality, momentum trading, and adverse selection models
- Published 3 white papers with Deephaven that helped increase user engagement over **35%**

Projects

GossipProtocol at Texas A&M University   Jan 2022 – May 2022
- Collaborated to build a **full stack,** cryptocurrency news aggregation application to curate news based on wallet holdings
- Built backend in **node.js,** and designed relevance algorithm for twitter, telegram, and reddit API's, deployed with **Heroku**
- Selected as the **best senior capstone** in our class by industry panel experts, and received **5 solana** in winnings

LyRec at Texas A&M University   Apr 2021 – May 2021
- Implemented 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 for creating a 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** for creating service that automates instructions with various APIs
- Used natural language processing in **NLTK** to parse instruction text into concrete API calls

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
- Developed in team using React.JS, Express.JS, and **MongoDB** and hosted on Azure to create a responsive, full stack app