

# Aditya Pethe

adityapethe1@gmail.com  
832-814-0815

linkedin.com/in/aditya-pethe  
github.com/aditya-pethe

## Education

---

<b>Texas A&amp;M University</b>	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, C++, JavaScript, HTML, CSS, R, Java

**Frameworks/Technologies:** Pandas, Numpy, Seaborn, Sklearn, Node.js, Pytorch, Selenium, BeautifulSoup, Git, Heroku

## Experience

---

<b>Amazon</b> – Software Engineering Intern	Sep 2022 – Dec 2022
<b>Instagram</b> – Data Science Intern	Jun 2022 – Sep 2022
<ul style="list-style-type: none"><li>Created privacy compliant proxy labels to train story ranking models using <b>daiquery (SQL)</b> and <b>bento (python)</b></li><li>Boosted reciprocal conversation proxies F1 scores <b>+13%</b> for story reshares, and <b>+50%</b> for story replies</li><li>Resulted in several QE (quick experiments), analogous offline performance resulted in <b>+0.13% communications DAU</b></li></ul>	
<b>Alexa Prize Challenge</b> – Student Researcher / Developer	May 2021 – Apr 2022
<ul style="list-style-type: none"><li><b>One of ten</b> teams Amazon selected to compete in building a conversational taskbot for the <b>Alexa Prize Grand Challenge</b></li><li>Boosted ratings <b>+10%</b> via smart user recommendations, implemented step navigation and transcript generation</li><li><b>Coauthored</b> technical paper “Howdy Y’all: An Alexa TaskBot” with an emphasis in conversationalized instructions</li></ul>	
<b>Texas A&amp;M Datathon</b> – President	Nov 2019 – Dec 2021
<ul style="list-style-type: none"><li><b>Managed team of 20</b> and organized Texas A&amp;M’s flagship data science hackathon with over <b>300</b> participants</li><li><b>Raised \$55,000</b> from sponsors and hosted the first hackathon ever at the Hall of Champions in <b>Kyle Field</b></li></ul>	
<b>SmugMug &amp; Flickr Inc</b> – Data Science Intern	Jun 2021 – Aug 2021
<ul style="list-style-type: none"><li>Lead independent project to predict subscribers from free trial user data, <b>presented</b> at company-wide all hands</li><li>Used various techniques (<b>PCA, TSNE, NN, XGBOOST</b>) to improve model recall <b>+20%</b></li><li>Created a <b>feature importance dashboard</b> that led to direct product experimentation and testing</li></ul>	
<b>Deephaven Data Labs</b> – Data Science Intern	May 2020 – Aug 2020
<ul style="list-style-type: none"><li>Used <b>Sklearn, Fbprophet</b>, and <b>Deephaven</b> to build seasonality, momentum trading, and adverse selection models</li><li>Published 3 white papers with Deephaven that helped increase user engagement over <b>35%</b></li></ul>	

## Projects

---

<b>GossipProtocol</b> at Texas A&M University	Jan 2022 – May 2022
<ul style="list-style-type: none"><li>Collaborated to build a <b>full stack</b>, cryptocurrency news aggregation application to curate news based on wallet holdings</li><li>Built backend in <b>node.js</b>, and designed relevance algorithm for twitter, telegram, and reddit API’s, deployed with <b>Heroku</b></li><li>Selected as the <b>best senior capstone</b> in our class by industry panel experts, and received <b>5 solana</b> in winnings</li></ul>	
<b>LyRec</b> at Texas A&M University	Apr 2021 – May 2021
<ul style="list-style-type: none"><li>Implemented lyric-based song recommender system using <b>matrix factorization</b></li><li>Using <b>Bag of Words, BERT</b>, and <b>TF-IDF</b> to compute pairwise similarity on 100,000 song dataset</li></ul>	
<b>Helping Eye</b> at TAMUhack	Jan 2020
<ul style="list-style-type: none"><li><b>Won 1st Place</b> for best use of Azure from Microsoft for creating a chatbot to assist the visually impaired navigate the web</li><li>Developed in team using React.JS in chrome extension, NLP and ML with Azure’s LUIS API, <b>Node.js</b> for bot execution</li></ul>	
<b>Auto Flow</b> at HackPrinceton	Nov 2019
<ul style="list-style-type: none"><li><b>Won 1st Place for best use of API's</b> from <b>Stdlib</b> for creating service that automates instructions with various APIs</li><li>Used natural language processing in <b>NLTK</b> to parse instruction text into concrete API calls</li></ul>	
<b>Full House</b> at HackTX	Nov 2019
<ul style="list-style-type: none"><li><b>Won 1st Place</b> for PwC hack for social good challenge, created a web app to assist homeless with inventory management</li><li>Developed in team using React.JS, Express.JS, and <b>MongoDB</b> and hosted on Azure to create a responsive, full stack app</li></ul>	