**Anish Karthik**

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**Education**

**Bachelor of Science, Computer Science,** *Texas A&M – College Station, GPA –* ***3.70***August 2021 – May 2024

**Bachelor of Science, Applied Mathematics,** *Texas A&M – College Station, GPA –* ***3.70***August 2021 – May 2024

**Skills**

* Programming Languages/Frameworks: Python, C++, Linux, SQL, JavaScript, HTML/CSS, Reactjs, React Native
* Machine Learning: TensorFlow, OpenCV, NLP, Regression, GAN’s, CNN’s, Reinforcement, Numpy, Pandas

# Experience

**TAMU ESP Lab,** *Undergraduate Researcher* October 2021 – Present

* Work under Professor Roozbeh Jafari using **Matplotlib** to visualize and interpret **15,000,000+** lab data points.
* Streamline lab data using **Python** to consistently facilitate an increase in service availability by **+10%.**
* Use **Pandas** and **KNN** in clustering and interpolation algorithms to find trends in **100+** datasets.

**Forum Communications International,** *Software Development Intern* February 2021 – August 2021

* Utilized **Reactjs** and **React Native** to upgrade the initial web app to a native phone app.
* Used **React** to **100**% overhaul Forum Conference Blast notification and Blast Dial Features.

**TAMU Research: Machine Learning,** *Undergraduate Researcher* September 2021 – August 2021

* Researched machine learning applications under Professor Hong Liang for **~99.9%** supercapacitor chemical efficiency.
* Used **Python** and **Pandas** to utilize **5+** ensemble learning models to predict supercapacitor power density.

# Activities & Personal Projects

**Food for Thought Data Coleridge Initiative Challenge,** *Competitor* November 2021 – Present

* Experiment with natural language processing to link language-based entries in the IRI and FNDDS databases.
* Deploy feature extraction to normalize input names to tokenize **800,000+** product codes.
* Selected to utilize **Python** and CNNs to parse and categorize Cooleridge phrases database.

**Hackathons,** *Competitor*August 2020– Present

* Achieved **2nd Overall** at **MacroHacks 2020** and **AtlasHacks 2020** for Parkinson’s detection neural network model.
* Created a keylogger that recorded time intervals between keystrokes of users to feed the machine learning model.
* Deployed Excel and **CSV** files to connect neuroQWERTY dataset to achieve detection accuracy rate over **70%.**
* Utilized **TensorFlow, Keras, and CNN** to create an image descrambler at **TAMU Datathon 2022** with a **93.5%** accuracy rate earning 4th place overall.

# Leadership

**TAMUhack,** *Director*  October 2021 – Present

* Director for TAMUhack, Texas A&M University’s largest annual hackathon (**800+** hackers).
* Help gather food, prizes, and sponsors worth over **$70,000** for one of two hackathons.
* Maintain organization website used by **4000+** userseach event cycle

**Aggie Data Science Club,** *External Vice-President* December 2021 – Present

* Source contacts from **10+** companies, **15+** university professors, **500+** A&M students, and academia.
* Teach internal sub-group about the data science lifecycle using **Kaggle, Jupyter notebook,** and **Numpy**

# Honors

• 1590 SAT, 35 ACT, National Merit Scholar, President’s Endowed Scholar, A&M Engineering Honors