

## KHANH NHU NGUYEN

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### EDUCATION

**Lonestar College, Cypress, TX**

Fall 2018

**Texas A&M University, College Station, TX**

Fall 2022

*Bachelor of Science in Biochemistry, Minor in Computer Science*

Relevant Coursework: Data Structure and Algorithm, Calculus and Differential Equation

### SKILLS

Skilled in C++ and Python. Proficient in using PyTorch and TensorFlow library dealing machine learning supervised and unsupervised learning problem.

Experienced with Java and JavaScript.

Proficient in Microsoft Office, familiar with displaying and analyzing data using MATLAB.

### ACTIVITIES

**15 Hours Volunteering Tutor in Lonestar College**

Fall 2018

**Project “Data Synthesis”**

Fall 2021

*Participated in TAMU Datathon 2021*

- Implemented a preliminary heat map of vaccination 3000 tweets related using Twitter API to gather Twitter Data from web scraping.
- Authenticate our access to limit search geographical domain to the US using libraries on Python.

**Project “Pizzeria” - Celonis 21 Challenge**

- Predicted the net gains and loss of the purchases by replaced non-numerical values with a numeric label and ran our model using a separate label, and pushing data given into trees to make the machine learn to by using Random Forest algorithm. Accuracy of the prediction program was attained at 98%.

**Research Project “Future Portable Microscopy”**

Present

*Aggie Research Program Participation 2021*

- Non-invasive diagnostic imaging using Machine Learning on Android app. Building a portable video microscope to measure PT/INR levels at point of care using neural network supervised-learning algorithm.

### WORK EXPERIENCE

**Peer Tutor - Tutoring Center in Lonestar College CyFair.**

Fall 2018

- Volunteered tutoring Math- Chemistry I, II, Calculus I, II.
- Worked as Peer Tutor in Tutoring Center in Lonestar College.
- Participated as Math Tutor for Exam Jam and Exam Cram for Final.

**Student Technician - Biomedical Engineering in Texas A&M University**

Fall 2021

- Developed a Microscopy Portable Phone App with microscopy lenses.
- Predicted bacterial rates using image recognition and machine learning algorithm with given data from database.

### ACHEIVEMENT AND CERTIFICATE

Won 2<sup>nd</sup> Place in AMATYC Student Mathematics League Contest.

Certificate of Congratulations and Recognition of Service-Learning Project in Lonestar College.

### LANGUAGE

Proficient in English and Vietnamese.

### INTEREST

Biosensors, Data Structure, Data Science, Machine Learning, Algorithms.