

Nitish Elango

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EDUCATION

Texas A&M University | Craig and Galen Brown Engineering Honors

College Station, TX

Bachelor of Science in Computer Science

Expected Graduation: December 2025

Relevant Coursework: Data Structures and Algorithms (C++), Analysis of Algorithms, Machine Learning, Bayesian Statistics (R)

EXPERIENCE

Machine Learning Engineer Intern

Joint Base Lewis McChord, WA

National Security Innovation Network (DOD subcontractor)

June 2024 - August 2024

- Boosted situational awareness by 33.4% by developing and deploying **machine learning models (Clustering, LSTM)** for anomaly detection using **TensorFlow, Keras, and Scikit-learn**, leading to improved data insights. Used Agile methodology for iterative improvements and feedback.
- Increased model accuracy by 20% by applying advanced **statistical methods (K-Means, DBSCAN, Linear Regression)** and by performing **hyperparameter tuning** and **cross-validation**.
- Contributed to **data security strategies** by **publishing research** on anomaly detection and enhancing system defenses through structured data management.
- Received the Commander's Coin of Excellence from Colonel Charles Kean for outstanding performance in a machine learning project for the army.

President

College Station, TX

InnovateX

August 2024- Present

- Leading a 35-member organization to develop 5+ software solutions addressing real-world challenges, ranging from **machine learning models to web applications**.
- Mentoring members in applying technical skills to practical problems while fostering collaboration and innovation through ongoing projects.

Trading Intern

Remote

ThinkSabio

May 2021- August 2021

- Developed and tested technical investment strategies using PineScript, leveraging VWAP, RSI, MACD, Stochastic RSI, and Volume indicators resulting in a 43.81% return on investment.
- Enhanced presentation skills and understanding of Capital Markets through weekly stock pitches.

PROJECTS

Speak2Save (Personal Project) | *React, Flask, Chart.js, Natural Language Toolkit, MongoDB, Redis, Locust* August 2024 - Present

- Developed a **full-stack** personal finance website using **Flask** and **React** with **Natural Language Processing (NLP)** and voice recognition. Enabled verbal expense input and automatic budget updates, enhancing ease of use.
- Achieved a 30% reduction in manual entry time and a 40% improvement in processing speed through **threading** and **multiprocessing**, optimized database queries with **indexing** and **caching**, and stress-tested using **Locust**.

PROPSTER (Personal Project) | *TensorFlow, Python, Jupyter Notebook, Scikit-learn, Git*

February 2024 - July 2024

- Developed a Python-based data science tool using **TensorFlow** and the OddsJAM API for predictive modeling with **Naive Bayes, Neural Networks, and Linear Regression**, achieving a 34.49% return on investment in 5 months.

EDUPAL (Howdy Hack) | *HTML, CSS, JavaScript, Node.js, Express + Socket.io, Git*

October 2022

- Built a **full-stack**, engaging learning experience with a dynamic **front-end** using modern design principles, habit formation techniques, and web services with HTML, CSS, JavaScript, and Node.js (Express + Socket.io).

TECHNICAL SKILLS

Languages: Python, C++, Java, R, Swift, JavaScript, Rust, C#, CSS, Perl, Assembly, typescript, SQL

Frameworks: TensorFlow, PyTorch, Angular, React JS

Dev Tools: Git, Github, Visual Studio Code, Jupyter Notebook, ML Flow, MySQL, Linux, Microsoft Azure, Power BI, Docker

Libraries: Scikit-learn, Keras, Pandas, NumPy, socket.io, MongoDB, Locust, Redis, Natural Language Toolkit

Activities and Accomplishments

Certifications: Introduction to **Machine Learning** (Kaggle), Certified Entry-Level **Python Programmer** (Python Institute)

Campus Involvement: Aggie Data Science Club, Aggie Competitive Coding Club, Intramural Basketball, SWAMP (Filmmaking Org)

Awards: US Army Commander's Coin of Excellence Recipient, Brown Honors Student, Dean's List

Interests: Competitive Coding, Trading, Basketball, Film-Making