

Allen George Ajith

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EDUCATION

Courant Institute of Mathematical Sciences, New York University

2024 – 2026

MS in Computer Science

New York, NY

Relevant Courses: Deep Learning, Operating Systems, Programming Languages

Cochin University of Science and Technology

2019 – 2023

B.Tech. in Computer Science and Engineering

Kerala, India

Graduated - First Class with Distinction, GPA: 9.24/10

Relevant Courses: Calculus, Linear Algebra II, Database Management Systems, Algorithms and Data Structures, Machine Learning.

EXPERIENCE

Research Assistant

Aug. 2024 – Present

NYU, Courant Institute of Mathematical Sciences

New York, NY

- Collaborating with Dr. Dennis E. Shasha and his team to develop ML-based trading strategies for High Frequency Data Forecasting in the foreign exchange (FX) market by applying sentiment analysis to financial news to enhance our trading models.

AI Intern

Jun. 2022 – Dec. 2022

Hitachi Solutions India Pvt. Ltd.

Chennai, India

- Contributed to the development of Federated Learning architectures, focusing on distributed model training across multiple decentralized data sources.
- Designed and implemented Cross-Silo and Cross-Device federated learning models to analyze data across heterogeneous environments.

IT Intern

Nov. 2020 – Dec. 2020

TotalEnergies

Abu Dhabi, UAE

- Part of the IT Support Team, assisted in Server Backup & Maintenance, Project Pre-planning, and Data Collection.

PUBLICATIONS

Exploratory Analysis of Link Prediction and Sampling of Social Networks

Jul. 2023

Presented @ The International Conference on Green Energy, Computing and Intelligent Technology (Gen-CITY 2023)

PROJECTS

Blockchain E-Tender System | Solidity, Circom, Javascript

Dec. 2022 – Mar. 2023

- Designed and built a Sealed Bid Tender system deployed on Polygon Network with an interactive UI achieving secure verification of bids using Zero Knowledge (ZKP) circuits implemented in Circom.

Speech2Emotion | Python, HTML, Flask, TensorFlow

Jan. 2022 – Apr. 2022

- Developed an end-to-end deep learning pipeline that processes real-time audio input using convolutional neural networks to classify emotions with an 11% improvement in prediction accuracy compared to VGG-16.

LEADERSHIP AND VOLUNTEERING

Google Developer Students Club, CUSAT | Content Team Lead

May 2021 – Jul. 2022

- Guided a community of 200+ CS students in their professional development, technical skills, and interest in tech.
- Major responsibilities involved technical content creation, mentorship, and organizing techtalks, hackathons, and workshops.

SKILLS

Programming Languages and Libraries: C++, Python, PyTorch, TensorFlow, Solidity, SQL, HTML/CSS, NumPy, pandas, FedML, scikit-learn

Developer Tools: Git, Docker, GCP, Azure

CERTIFICATIONS

Google Cloud Skills: Data Engineering, DevOps, Machine Learning

Toastmaster's International: Competent Communicator, Competent Leader