

# ANEES MOHAMMED

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## EDUCATION

### RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY

Rutgers University- Newark, NJ

December 2025

Master of Information Technology (Data Science and Machine Learning)

### BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE (- PILANI)- Hyderabad, India

August 2018-August 2022

B.E Electrical and Electronic Engineering

## EXPERIENCE

### SLICE- Bangalore, India

June 2022 - August 2024

#### Software Developer

- Communicated technical requirements to cross-functional teams (product, engineering, and support) via weekly status updates, ensuring alignment and reducing time-to-deploy by 20%.
- Introduced Account Aggregator SDK to acquire users bank and credit details using Android native Kotlin for Slice mobile application, improving exchange of financial data and boosting gross total value by \$100M
- Engineered a suite of reusable widgets for a backend-driven UI flow, enabling seamless integration across 5+ platforms. Developed both front-end and back-end, implementing all necessary backend APIs using Java's REST API
- Leveraged AWS for backend services and Kubernetes for orchestrating deployment, cutting down development time for new features by 40% and improving consistency in user experience
- Reduced app launch time from 7 to 1.5s, promoting user retention by 30% through lazy initialization with Dagger, and ProGuard obfuscation

### Samsung- Bangalore, India

July 2021 - December 2021

#### Software Engineering Intern

- Spearheaded development of a GPU-based proof of concept for 5G antenna signal transmission to transition from a CPU-based architecture, leading to a 300% reduction in organizational costs
- Implemented CUDA for parallel computing, leveraging Nvidia Nsight to debug and optimize performance, utilized GCC for compiling high-performance code that improved processing speed by 60% in applications.
- Optimized thread hierarchy and memory layout, resulting in substantial improvements in processing efficiency, slashing compile time of complex files up to 400%
- Achieved a drastic runtime reduction from 12 seconds to 0.23 seconds by implementing containerized development using Docker

## RELEVANT PROJECTS

### Facial Emotion Recognition | OpenFace, TensorFlow, NumPy, ResNet.

September 2024

- Created a deep learning model capable of detecting and categorizing human emotions based on real-time facial expressions with an accuracy of 87%
- Employed genetic algorithms to train and validate models and extracted Action Units via the OpenFace application to generate a CK+ dataset of 2.1M test faces

### Depth Regression Model for RGBd Image Dataset | Python, Tensorflow, CNNs, NumPy, Keras

October 2023

- Designed and implemented an ensemble model combining GlobalDepthNetwork for global scene structure and LocalGradientNetwork for capturing fine-grained spatial details, ensuring high prediction accuracy.
- Achieved a performance accuracy of 92% using evaluation metrics such as Mean Squared Error (MSE), Root Mean Squared Error (RMSE), and Mean Absolute Error (MAE).
- Utilized TensorFlow/Keras for neural network implementation, trained the model on an RGBd dataset, and visualized depth maps to ensure qualitative analysis.

## SKILLS & CERTIFICATIONS

- Languages:** Python, Java, Kotlin, C, C ++, Golang, Swift, JavaScript, CUDA, Rust, Solidity, React, Angular , Linux
- Software Development Tools:** AWS,Git,Kafka, MapReduce,MySQL,DatabricksETL,Docker,Postman,Firebase, VSCode, Grafana, SnowFlake, YAML
- ML Techniques:** TensorFlow, OpenFace Frameworks for Facial Recognition Models; Genetic Algorithms; NLP Techniques; Computer Vision Methods
- Cloud Computing and DevOps:** Kubernetes,CI/CD Pipelines,AWS Services for Backend Development,Containerization