Hassan Muhammed Ahsan

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Computer Engineering

B.Tech

Indian Institute of Technology Design & Manufacturing Kurnool

Hyderabad, Telangana

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Examination	University	Institute	Year	CPI/%
B.Tech	IIITDM Kurnool	IIITDM Kurnool	2018 - 22	6.93

TECHNICAL SKILLS

- **Programming & Scripting Languages**: Snowfalke, C, Go, Python, SQL, Oracel SQL, MS SQL*,Bash*
- **Frameworks**: OpenCV, TensorFlow, Flask, OpenFaaS
- **Tools & Libraries**: Tableau, PowerBI, LaTeX, Kubernetes, Docker, GIT, MySQL, SQLite*, MongoDB*
- **Platforms:** Linux*, Web, Windows, MS Excel, MS Word, MS Power point
- **Soft Skills:** Leadership, Event Management, Writing, Time Management
- **Interest:** Cloud Computing, Edge Computing, Deep Learning, Linux

INTERNSHIP

- **Research Intern** | *Samsung R & D India (Samsung Prism)* *(May'21-Nov'21)*
  - Designed an android-based application using **Flutter** & integrating the model.
  - **Implementation**: The model generates four separate audios of vocals, bass, drums, & others as output.
  - **Result**: The model can separate the audio into vocal, bass, other, & drums categories.
  - **Tech Stack**: TensorFlow, Python, Flutter, UNets, Auto Encoder, & Librosa

B.TECH THESIS & SEMINAR

- **Load Based FaaS Scaling**
  *(B.Tech Project | Guide: **Prof. R Anil Kumar**)* *(Dec'21-May'22)*
  Work Done:
  - Worked on FaaS (Function as a Service) scaling according to the incoming network traffic
  - **Impacts:** Improved run-times and request handling for Data Science functions implemented in FaaS model in OpenFaaS framework
  - Improved the number of successful request processed by ten percent
  Future work:
  - To improve the OpenFaaS for intense Batch processing and Machine Learning
  - Scale it to handle larger incoming traffic with more NATS servers in a cluster while maintaining immediate consistency.
  - Use Asynchronous function making the container run longer and with NATS Jetstream
  Techn Stack: FaaS, PaaS, Shell Scripting, GO, Flask, Docker, & Kubernetes

COURSE PROJECTS

- **SPEECH TO TEXT CONVERSION** *(May'21-Dec'21)*
  - **Work Done** on speech to text conversion system using RNN, HMM, & PyDub
  - The system, implemented using a block chain on a banking server, can accept input from various sources, including video or live voice, assisting underprivileged individuals.
  - **Tech Stack**: Python, PyDub, Graphql, RNN, & HMM
- **CLASSIFICATION FOR CLOSED EYES** *(Jan'21-Mar'21)*
  - **Work Done** for the prediction for open or closed eyes, which uses Tflite model & OpenCV.
  - **Impact:** Implemented a suitable program that recognizes and classifies the eyes of the user using a live feed.
  - **Tech Stack**: Python, Tflite, & OpenCV

POR & EXTRA-CURRICULARS

- **Delegated** arrangements & **Administered** the College Fest *(Feb'18 & Mar'19)*
- **Organised & Spearheaded** 2000+ student's for Science Day *(Feb'19)*
- **Chaired** Broadcasting Team of Science Day *(Feb'19)*
- **Core Member** of the Hostel and Mess *(Aug'19 - Mar'22)*
- **News Letter Core Member** at IIITDM Kurnool *(Dec'21 - Mar'22)*
- **Coordinator** of Social Service Group *(Aug'19-Mar'20)*

* Have basic/beginner-level knowledge