Hassan Muhammed Ahsan
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Computer Engineering   **B.Tech**

Indian Institute of Technology Design & Manufacturing Kurnool

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

TECHNICAL SKILLS

- **Programming & Scripting Languages**: Snowflake, C, Go, Python, SQL, Oracel Databases, HTML, CSS, MS SQL*,Bash*
- **Frameworks**: OpenCV, TensorFlow, Flask, OpenFaaS
- **Tools & Libraries**: Tableau, PowerBI, LATEX, Kubernetes, Docker, GIT, MySQL, Figma*, SQLite*,
- **Platforms:** Linux*, Web, Windows, MS Excel, MS Word, MS Power point
- **Soft Skills:** Leadership, Event Management, Writing, Time Management

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

THESIS & SEMINAR

- **Traffic Aware Scaling Optimization in OpenFaaS** | *(B.Tech Project)*   *(Dec'21-May'22)*
  - **Work Done:**Proposed and Implemented a traffic aware scaling algorithm for the OpenFaaS platform for changing the static parameters during scaling
  - **Impacts:** Improved run-times and request handling for Data Science functions implemented in FaaS model in OpenFaaS framework
  - Reduced response time in the proposed design by 50% compared to time taken in Default Static Scaling implementation
  - **Future work:**To improve the OpenFaaS for intense Batch processing and Machine Learning
  - Use Asynchronous function making the container run longer and with NATS Jetstream

  Tech 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