PUNID RAMESH

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Education

Vellore Institute of Technology (B.Tech) **9.07**
ECE with Specialization in Internet of Things and Sensors *2018 – Present*

Bangalore International Academy (CBSE) **93.2%**
Higher Secondary; Bangalore, India *2016 – 2018*

Ryan International School (ICSE) **92.6%**
Matriculation; Bangalore, India *2004 – 2016*

Experience

KFX Labs **Remote**
Internet Of Things Engineer Intern *Nov 2020 - Dec 2020*

- Developed a real-time critical asset monitoring solution based on the data collected from seismic sensor. The solution performs edge-analytics for automated actuation. Data visualization of asset and edge devices on Grafana Dashboard.
  Utilized: EdgeX Framework, Docker, GoLang, Python, Telegraf, InfluxDB, Grafana, GCP

Agixury **Remote**
Front End Developer Intern *Sep 2020 - Oct 2020*

- Developed the front end of a travel and tourism website in collaboration with team.
  Utilized : HTML5, CSS3, Bootstrap, Javascript

Skill Set

- **Languages**: Python, Java
- **Technologies**: PyTorch, Django, AWS, Docker, EdgeX

Projects

- **Morax:** This project aims to provide Coinbase wallet users a means to monitor their crypto. assets using the terminal. The user can view a cryptocurrency's spot price, current wallet worth, amount of coin owned, and an ASCII art of the cryptocurrency logo. The CLI app also lets the users view the price variations of the coin on a hourly basis via a graph plotted in the terminal.
  Utilized: Flask, OAuth2.0, Python, Coinbase APIs
- **Detection of COVID-19 from cough sounds using Deep Learning:** This project aims to detect the presence of Coronavirus using the cough audio samples as input and feature extraction is done to extract audio features like Mel-Spectrogram. CNNs are employed to classify if the audio sample shows COVID-19 tendencies.
  Utilized: CNN, FFmpeg, Librosa, Arduino Nano 33, Tensorflow Lite
- **Utilization of Embedded Systems for Smart Farming:** This project is a collaboration with the Electronics and Agricultural department of VIT. It aims to automate tasks in a farm, provide smart feedback and alerts to farmers and operate on renewable resources.
  Utilized: Node-RED, Firebase RTDB, NodeMCU

Publications

- **Visualization and performance analysis on 5G network slicing for drones** **ACM**
- **Using EdgeX as an IoT middleware** **Nerd for Tech, Medium**

Certifications/Certificates

- **AWS Certified Solutions Architect - Associate:** AWS Certification that validates cloud expertise.
- **Deep Learning Nanodegree:** Nanodegree program offered in PyTorch and AWS on Udacity.
- **Machine Learning:** Course by Andrew Ng offered by Stanford University on Coursera.