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 based on the seismic data collected from seismic sensor. The solution performs edge-analytics for automated actuation. Data visualization of asset and edge devices on Grafana Dashboard.
  Technology : 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
  Technology : HTML5, CSS3, Bootstrap, Javascript

Programming Skills

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

Projects

- **Morax**: This project aims to provide Coinbase wallet users to monitor their crypto. assets directly from the terminal. It offers data ranging from the cryptocurrency's spot price, current wallet worth, amount of coin owned, and a beautiful 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.
- **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 fully operate on renewable resources.
- **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.

Publications

- **Visualization and performance analysis on 5G network slicing for drones**: This conference paper explores the visualization and the performance analysis of 5G network slicing for drones to achieve a better understanding of the concept in terms of expenditure and performance.
- **Using EdgeX as an IoT middleware**: This article explores the usage of EdgeX as a viable IoT edge middleware.

Certificates

- **Deep Learning Nanodegree**:
  - A nanodegree program offered in PyTorch and AWS on Udacity.
- **Machine Learning**:
  - A course by Andrew Ng offered by Stanford University on Coursera.
- **Industrial IoT on Google Cloud Platform**:
  - Google Cloud based IoT course by the Google Cloud team on Coursera.

Extracurricular

- DSC VIT Powered by Google Developers
- **Team Sammard**:
  - Worked as an PCB designer for the CANSAT 2020 satellite building competition organized by the American Astronautical Society.

Languages

- **English**:
  - Full Professional Proficiency
- **Hindi**:
  - Limited Working Proficiency
- **Tamil**:
  - Limited Working Proficiency
- **Japanese**:
  - Elementary Proficiency