Punid Ramesh Natesan
https://punidramesh.tech
Email : punidramesh@gmail.com
Mobile : +91 7760493022

Education

- **Vellore Institute of Technology** — Vellore, India
  Bachelor of Electronics and Communication Engineering — *May. 2018 – Present*
  with Specialization in Internet of Things and Sensors; CGPA: 9.14
- **Bangalore International Academy** — Bangalore, India
  Higher Secondary; Class 12 Result (CBSE): 93.2% — *May. 2016 – May. 2018*
- **Ryan International School** — Bangalore, India
  Matriculation; Class 10 Result (ICSE): 92.6% — *May. 2004 – May. 2016*

Experience

- **KFX Labs** — Bangalore, India
  Internet Of Things Engineer Intern — *November 2020 - Present*
  - 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, C++, C, SQL
- **Technologies**: PyTorch, Django, AWS, Git, Docker, AWS, MATLAB, EdgeX

Projects

- **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.
- **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.
- **Dog breed classifier**: This project utilizes CNNs to label different dog breeds from the input images. The model was implemented using transfer learning using the ResNet model with the fully connected layer trained with over 8000 images.

Publications

- **Visualization and performance analysis on 5G network slicing for drones**: https://dl.acm.org/doi/abs/10.1145/3414045.3416208

Certificates

- **Deep Learning Nanodegree**:
  - A nanodegree program offered in PyTorch and AWS on Udacity
    https://confirm.udacity.com/NTKAL5PD
- **Machine Learning**:
  - A course by Andrew Ng offered by Stanford University on Coursera
    https://www.coursera.org/account/accomplishments/verify/P9KAB9WAT9NV

- **Industrial IoT on Google Cloud Platform**:
  - Google Cloud based IoT course by the Google Cloud team on Coursera.
    https://www.coursera.org/account/accomplishments/verify/TR8LX6L63PXU

Extracurricular

- **DSC VIT powered by Google Developers**:
  - Worked as a manager to manage and organize hackathons, and workshops.
- **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
- **German**:
  - Elementary Proficiency