Jayeeta Jagannath

Gender: Female

CONTACT

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ABOUT ME

A very passionate Computer Engineer with profound interest in Embedded Systems and hardware accelerators for AI and Computer Vision. I am ready to accept new challenges and tasks with a positive approach meeting in line with the latest trends and advancements in technology and gravitate towards proposing innovative solutions to industrial problems.

WORK EXPERIENCE

08/01/2019 – 28/06/2021 – Bengaluru, India

Associate IT Consultant - Big Data Developer

ITC Infotech

Worked as a Big Data Developer in Finance domain for Santander bank, UK ● Worked on building the ETL pipeline, logic and batch processing using Spark Framework with underlying Hadoop concepts. ● Part of the core team to build the reusable generic components with focus on better performance ● Independently handled a short term project on migration from legacy to big data lake. ● **POC**: Short term involvement in the POC to develop an Artificial Financial Advisor App

EDUCATION AND TRAINING

23/08/2021 – CURRENT – Houston, United States

Graduate Student in Electrical and Computer Engineering

Rice University

VLSI/FPGA Design | Embedded Machine Learning | Computer Architecture | Deep Neural Networks

1) Working on RISC-V project - to develop systolic array based matrix computation unit on RISC-V

2) Involved in a research project in Efficient and Intelligent Computing Lab (energy efficient AI on edge devices) topic - Federated Learning

3) Designed a linear system solver using SysGen on an ARM Core using Cordic and QRD methods on matrices.

Field(s) of study
- Computer Engineering | AI Accelerators | Data Science

3.91/4

02/08/2015 – 29/04/2019 – Neelambur, Coimbatore, Tamil Nadu, Coimbatore, India

Bachelor's of Engineering (B.E)

PSG Institute of Technology and Applied Research

Field(s) of study
- Electronics and Communication engineering

7.85/10 | Final year project - CNN based industrial Tools Identification System

DIGITAL SKILLS

Spark + Scala / ARM7(LPC2148) / Big Data Analysis / Machine Learning / Embedded Systems / Python / Linux / Deep Learning / Programming Languages: C, C++, Python, Matlab / Computer Vision / Git / OpenCV / PythonMPI / Xilinx Vivado / Vitis (Xilinx)

PROJECTS

Machine based Learning Object Detection System

A computer-vision based application developed for the industrial problem statement given by L&T Technology services - Developed a light-weight neural network model for identification of industrial tools accurately that can be deployed in mobile-phones. (2017 - 2018)

Tools and Languages : **Python, CNN, Tensorflow, Spyder IDE, OpenCV**

As an extension, presented the paper titled "A CNN based Surgical Tools Detection System" in the National Conference on Communication, Computing and System Design conducted by PSG Institute of Technology and Applied Research (2019)

Worked on project - **Human behavior analysis in a video surveillance camera** and presented concept/solution in the same design event(2017 - 2018)

Smart Home

Developed home automation system using Arduino with features like automatic control of the lights based on surrounding light intensity, temperature-based fan speed control, GSM-based control of appliances & burglar alert system (2016)

Voice Controlled Robot

Developed bluetooth enabled Voice Controlled Robot using Arduino and LabView that moves based on the voice commands (2017)

HONOURS AND AWARDS

Best Project Award – PSG Institute of Technology and Applied Research
Awarded for the project "CNN Based Tools Identification system", for the year 2019.

Outstanding Performance – PSG Institute of Technology and Applied Research
Awarded for the contribution in the L&T TECHGium Design Contest

Finalist in L&T TECHGium Design Contest- One among the top 50 teams in the finals amidst 4000 + participants.

SHRI C SUBRAMANIAM AWARD – Bharatiya Vidhya Bhavan, MHSS, Coimbatore
Award for Excellence in Character in the year 2011

MANAGEMENT AND LEADERSHIP SKILLS

Association designations and Activities

ECA Association - Served as **Joint Secretary** (2016-2017) and **Joint Treasurer** (2015-2016) of Electronics and Communication engineering Association, PSG iTech

Event Coordinator of Perilous Path Tracer-Robotic event in Yuktaha, Technical Symposium of PSG iTech (2017)

Organized a one day workshop in Machine learning – Computer Vision, in the event Yuktaha, PSG iTech (2018)

Speaker and Member of I-Vision, discussion forum for students, PSGiTech & Vivekananda Forum in Bharatiya Vidhya Bhavan, Coimbatore **Editor** -"PSG Connect", a bi-monthly newsletter for PSG Organizations