Pranali Kokate

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Education

NIT Jaipur	**July 2019 – June 2021**
Embedded Systems	*CGPA : 8.63*
Mumbai University	**Aug 2012 – June 2016**
Electronic Engineer	*CGPA : 8.23*

Experience

Nokia Solutions and Networks — *Python Automation, Backend development*　　　July 2021 – Present
Solution Engineer　　　*Bangalore*

- Competed in Nokia's 2023 **Generative AI Hackathon** and Created **'DoQ Bot'**, an intelligent document Chat Bot using **GPT** and **LangChain** designed to interact with the user and provide summarized details from the documents
- Developed an innovative solution Test Automation Framework **TAF** using **Python and Robot Framework** which reduced the efforts by 100%
- Leveraged **Django**, **Fast API** to build high-performance back-end and deployed dockers for 2 web applications
- Implemented **Multi-threading** to increase response time and web socket integration resulting in a 60% enhancement in user experiences
- Experienced in vigorous Testing of 100+ test cases on **Packet Core CNF** cloud

Global Technical Services　　　March 2019 – July 2019
Embedded Engineer Intern　　　*Mumbai*

- Technical Head of the product development for **IIOT** which involved interfacing of sensors using **I2C, SPI, UART**
- Built a **Vibration Analysis Unit** that involves an ML model to understand jerks/wear and tear of the Machine
- Also have hands-on experience on **Liquid Particle Counter** which works on **MODBUS** protocols

Vizista Technologies Pvt. Ltd.　　　April 2017 – April 2018
Embedded Engineer　　　*Mumbai*

- Built and designed **IoT** product that increased client efficiency by 50% using **Raspberry Pi** and **proximity sensors**
- Designed Home Automation using **ARM-Cortex M0+, P89V51RD2 (RISC MC)** all the programming and debugging implemented on **Keil micro-vision**

Projects

Classification of Upper Arm Movements from EEG signals using ML with ICA Analysis　　　May 2021
- Proposed a unique algorithm to classify left/right-hand movements by utilizing **CNN Model**

Implementation of Sober Filter on FPGA using Hardware Descriptive Language　　　October 2020
- Edge detection filter implemented on the **Basys 3 FPGA** Board using the **OV2720 camera module** through **I2C** and displays the output on the monitor via **VGA**

Face Detection using Raspberry Pi　　　November 2019
- Face detection algorithm **Haar Cascade Analysis** was implemented on Raspberry Pi using camera OV2720

Human Detection using Multi-layer Perception Artificial Neural Networks (MLP)　　　May 2016

Technical Skills

Languages & Tools: C/C++, Python, Shell Script, Linux, TensorFlow, OpenCV, PyTorch, JIRA, GIT

AI & ML: Computer Vision, Deep Learning, NLP, LLM, Langchain, OpenAI API, GenAI, Prompt Engineering

Technologies: MariaDB, Redis Cache, Dockers, Kubernetes, JSON, FAST APIs, REST, WEB-SOCKETS

Hardware: ARM, RISC, 8051 MC, Raspberry Pi 3, NODE-MCU, Atmega-356, RF TxRx pair

Certifications

- Embedded Systems Software and Development Env.
- Tensorflow for AI, Machine Learning, and Deep Learning
- Linux for Developers
- Advanced Machine learning, and Signal Processing

Achievements

- Engaged in Nokia's 2022 Hackathon on "**Network as Code**" and achieved a **top-6 ranking** among all units. Developed a web application that demonstrated automatic bandwidth allocation showcasing innovating problem solving and teamwork