Vijayakumar Pattanashetti

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LinkedIn | GitHub | Website

EXPERIENCE

Infalytics LLP, Bengaluru — *Summer Intern*

July 2020 (1 month)

- E-Commerce software setup & documentation, including Reference Architecture, System of Interaction, Data Flow Architecture
- Microservices design to consume third party APIs

Siddaganga Institute of Technology, Tumakuru — *Intern*

January 2020 (3 Weeks)

- Development & Debugging of Python Framework and Arduino Interfacing Codes for Remote Labs project

EDUCATION

CMR University, Bengaluru — *B.Tech in Electronics and Communications Engineering | CGPA: 9.58/10.0*

August 2017 - August 2021

- Key Coursework: C Programming, Computer Communication Networks, Digital Signal Processing, Design Thinking, Embedded Systems(ARM), Neural Networks & Fuzzy Logic, Programming with Python
- EC Club Coordinator 2018 & PRAYOGA 2020 Events Organizer

PROJECTS

Real-time Background Noise Reduction – *Capstone Project (Ongoing)*

- Target scenarios: calls, online meetings, audio digitalization, speaker recognition

Real-time Fraud Detection using Azure Services

- Uses Azure Event Hubs, Stream Analytics & PowerBI

Text Rating on Amazon Reviews

- Heroku deployed flask API that uses SVM to score web scraped Amazon reviews
- Python libraries used: sklearn, pandas, numpy, matplotlib

Image Search — *Image querying solution*

- Uses Convolutional Autoencoders & kNN, and Google Colab for training
- Python libraries used: tensorflow-keras, cv2, sklearn, matplotlib

AI4ALS — *AI based android App*

- Eye blink detection integrated via Google's Firebase

Memories Saver — *CRUD App*

- Built using Django & deployed on heroku

Virtual Body Guard — *Python Project*

- Performs real time capturing of photos, videos & locations, and updating the same to emergency contacts through email & SMS.

SKILLS

Technical: Algorithms, APIs, Azure, Big Data, C/C++, Computer Vision, Data Structures, Data Analysis (Numpy/Pandas/PySpark), Data Visualization (matplotlib/seaborn/PowerBI), Deep Learning (TensorFlow/Keras/PyTorch), Docker, Embedded Systems, Git, GraphQL, Hadoop, Image & Video Processing, IoT, Machine Learning(sklearn), Matlab, Microservices, MongoDB, MySQL, NLP, OOP, Python(Django/Flask), Signal Processing, SQL, Travis CI, Web Scraping

Others: Adaptability, Design Thinking, Innovation, Leadership, Listening & Speaking Skills, Positive Attitude, Problem Solving, Product & Project Management, Solution Architecture, Teamwork, Time Management, Familiarity in Windows & Linux

ACHIEVEMENTS AND AWARDS

1. Won ReImagine Health 2019 hackathon organized by IISc, Bengaluru for the project, iDAMS - an IoT based solution for eye care.

2. Winner of Award of Excellence with USD 200 in InnovateFPGA Global Design Contest(AI on the Edge!) 2019, organized by Intel, Terasic & others, at APJ Regional Finals for the project, Bionic Leg - adaptive control systems based prosthetic leg(coded in C).

3. Second Prize Winner in IEEE CovidMove 1.0 for the solution B e A w a r e - an android app to bridge the gap between the farmers and the government during the crisis.

4. Received funding worth USD 200 in India Innovation Challenge Design Contest 2019 conducted by Texas Instruments & DST, Gov't of India

5. Secured 27th rank at Karnataka state level in NSTSE 2017.

ORGANIZATIONS & VOLUNTEERING

1. Student Member of IEEE, IEEE Signal Processing Society, IEEE Information Theory Society

2. Microsoft Student Partner 2020

3. Microsoft Learn Student Ambassador 2021

4. Mentor at MedHacks 2020 Global Hackathon

5. IEEEXtreme 14.0 Ambassador 2020