Padmaja Bhagwat

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PROFILE

Enthusiastic Software Developer eager to contribute to team success through hard work, attention to detail and excellent organizational skills. Clear understanding of microservice architecture and ML development tasks.

SPEAKER EXPERIENCE

Speaker at PyCon 2017, Portland, USA and PyCon India 2016
Topic: Algorithmic Music Generation – **YouTube link.** ⍐

Speaker at PyCon 2018, Cleveland, USA
Topic: Listen, attend, and walk: Interpreting natural language navigational instructions - **YouTube link.** ⍐

Speaker at PDC Tech Carnival 2020
Topic: Churn Analysis: How and what needs to be done to retain customers on any given platform - **YouTube link.** ⍐

EDUCATION

National Institute of Technology Karnataka, *Bachelor of Technology in Information Technology | 2014-2018*
CGPA - 8.36/10

PROFESSIONAL EXPERIENCE

VMware, *Member of Technical Staff*
Jul 2018 – present | Bengaluru, India
- Youngest developer of Skyline team that has witnessed **5X customer growth** (1.8k to 9k customers) in past 1 year.
- Currently involved in building Spring boot microservices and database management using Mongo and MySQL.
- Exploring ML models in collaboration with the Enterprise Data Analytics team for personalizing the Skyline platform, that helps VMware revolutionize its customer support from reactive to proactive.
- Worked on the project *Machine Learning as a Service* that involved building a common pipeline for all the ML tasks, right from preprocessing to deployment, so that the same ML model can be leveraged by different teams across VMware.

VMware, *R&D Intern*
May 2017 – Jul 2017 | Bengaluru, India
- Implemented a deep learning encoder-decoder model to detect anomaly in firewall data using TensorLayer as a PoC.

5C Networks, *Data Science Intern*
Dec 2016 | Bengaluru, India
- Automated brain tumor (Glioblastomas) segmentation using an input cascaded two-pathway CNN model in order to detect both local and global features of the tumor using TensorFlow.

Unnati Data Labs, *Data Science Intern*
May 2016 – Jul 2016 | Bengaluru, India
- Worked on the project *Algorithmic Music Generation*, that involved developing an LSTM model to generate plausible music on its own.
- Implemented the above model using Keras with Theano backend – **GitHub link** ⍐

PROGRAMMING LANGUAGES

JAVA   ● ● ● ● ●

Python   ● ● ● ● ●

C   ● ● ● ● ○

HTML   ● ● ● ○ ○

FRAMEWORKS

- Spring Boot
- TensorFlow
- PyTorch
- Keras

DB MANAGEMENT SYSTEMS

- MySql
- MongoDB
- PostgreSQL

INTERESTS

Open source contributor, Traveller, Dancer

ACHIEVEMENTS AND AWARDS

Best Presenter Award
Winner of the local network round and **South-Asia level finalist** of the presentation competition, *Present Around The World (PATW) 2017*, organized by the *Institution of Engineering and Technology.*

Innovative Project Award
For working on providing *Machine Learning as a Service (MLaaS)* during VMware R&D New Graduate Bootcamp 2018.

ACADEMIC PROJECTS

Listen, Attend, and Walk: Interpreting Natural Language Navigational Instructions,
using Python, PyTorch and Pygame
Developed an encoder-decoder based deep learning model to interpret ambiguous instructions and navigate in the given virtual environment - ***GitHub Link.*** ⬈

VM Allocation using Weighted Interval Scheduling with Capacity Sharing, *using JAVA and CloudSim*
Developed an optimal algorithm that maximizes the total weights (or profits) of VM allocation in cloud data centres by adopting capacity sharing along with weighted interval scheduling - ***GitHub Link.*** ⬈

Android Malware Detection System, *using Python*
Developed a decision tree classifier using ID3 algorithm that classifies the given android app into malicious or benign based on their permissions - ***GitHub Link.*** ⬈

EXTRA CURRICULAR ACTIVITIES

- I'm an active **teaching volunteer** at a non-profit organisation *Step Up For India* where I teach basic English to underprivileged children.
- **Mentored** VMware R&D New College Graduates of 2019 on their ML project.
- Was a part of the winning team at NITK inter-branch **dance competition**.
- Was selected for 6th Undergraduate Summer School Initiative organised by Computer Science and Automation department of **Indian Institute of Science, Bengaluru** (4th July - 9th July 2016).