MASHRIN SRIVASTAVA

mashrins@gmail.com
mashrin.com
+91- 9987454803
/in/mashrin/
mashrin

» Education

Vellore Institute of Technology
B.Tech. Computer Science and Engineering 2018
> TA for Data Science and Algorithms.
> Special Achiever Award winner.
> Best project award for the year 2015-2016 and 2017-2018.
> Program representative for Computer Science and member of student council.

» Skills

TECHNOLOGIES

Python
C
C++
Deep Learning
Machine Learning
Data Science
Tensorflow
PyTorch
OpenVINO
Explainable AI
Federated Learning
Model performance insights
DL model optimization
Edge AI
Docker
Kubernetes
Databases
Message broker
Git
Helm
Ansible

EXTERNAL COURSEWORK

MIT 6.S191: Introduction to Deep Learning
CS231n: CNNs for Visual Recognition, Stanford
Deep Learning specialization, deeplearning.ai
Mathematics of Deep Learning, IIT Kharagpur
Secure & Private AI scholarship, Facebook
TensorFlow in Practice, deeplearning.ai
CS229: Machine Learning, Stanford
Microsoft Campus Connect program
AI for Medicine specialization deeplearning.ai

» Employment

INTEL
Deep Learning Engineer — Dec. 2017 to Current
Deep Learning Engineer at Intel in Healthcare AI. Technical mentor for healthcare based startups under plugin accelerator program. Previously contributed to projects related to connected homes, smart city, mobility and Movidius Neural Computing Stick (Edge AI).

STANFORD SCHOLAR INITIATIVE
Member and Directly Responsible Individual — Feb. 2017 to May 2018
Initiative to make research accessible. Worked on the most influential papers from top conferences in AI. The role of DRI further includes the task of leading and managing the team.

DATA SCIENCE INTERN
WINGIFY — June 2017 to July 2017
Proposed and productised a scalable solution to include personalisation/ target push notifications to increase CTR & reduce the churn by multi-level customer segmentation.

CERELABS — Dec. 2016 to Jan. 2017
Built a model to predict machine failures using bearing dataset. Built DL on sound data for BPO use case.

KNOLSKAPE — June 2016 to June 2016
Proposed and developed a gamified version of the simulation product using Unity 3D.

» Side Projects

Developed a multi-label audio classifier on large dataset (>20GB) and further worked on audio content analysis.

Modified Dijkstra's algorithm and ant colony optimisation to arrive at the destination in the shortest time.

Development of deep learning model to detect abnormalities in the brain using MRI and CT.

ML algorithm to predict vehicle trajectory and the estimation of fuel consumption and CO2 emission.

User-friendly server management console panel for the users not familiar with Linux and networking techniques.

Working on a prototype to implement real life content blocker.

Working on the development of a device to help the visually impaired to read.

Variation of Conway's game of life including gender and graph for better prediction suited to human beings.

Model to simulate the growth of forest from scratch using cellular automata, WebGL and JS.

A simulated 3D guidance system starting from the entrance of the airport to the aircraft using Unity.

Automated robot to trace the path followed with audio cues for exploring places unfit for human beings.

» Awards and Activities

Recognitions

- Multiple (15+) internal recognition at Intel for various achievements and activities.
- Invited to MIT Media Labs Emerging World program.

External publication

- Automated emergency paramedical response system (Springer link)
- PageRank Algorithm using Eigenvector Centrality

External speakership / Exhibit

- Develop AI at network edge (FOSSASIA Summit 2019)
- Automated emergency paramedical response system (FOSSASIA Summit 2019)
- Using differential privacy for deep learning applications (FOSSASIA Summit 2019)
- Neural Compute Stick and OpenVINO toolkit for developing affordable AI (AWS AI Conclave keynote)
- Deep Neural Networks Inference Acceleration (Open Data Science Conference)
- Redefining Ethics And Privacy In The Age Of AI (Grace Hopper Conference 2019, India)
- AI on the Edge (DataHack summit)
- Optimizing neural network for faster inference (IEEE International Conference on HiPC)
- Exhibited AI prototypes built using Intel platform and products at NASSCOM India Leadership Forum '18 & World Congress on Information Technology '18; VLSID and ES conference '18; VLSID and ES conference '19; IEEE CONECCT conference '18; India Innovation Showcase.

Hackathon Winner

- Best project award for flight delay prediction (Microsoft big data)
- Best project award for breast cancer detection (Data Science '17, University of Texas, Dallas)
- Most popular award for stock price movement prediction (Data Science '17, University of Texas, Dallas)
- Most popular product award (Make School academy)
- Best exhibit award for Edge AI applications (VLSID '18 and ES '18 conference)