Ravsehaj Singh Puri

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EDUCATION

Arizona State University (ASU), United States   **TEMPE, USA**
Master of Science, Computer Science   Aug'21 to May'23

Thapar Institute of Engineering & Technology (TIET), India   **PATIALA, INDIA**
Bachelor of Engineering, Computer Engineering | CGPA 8.89/10.0   Jul'17 to Jun'21

WORK EXPERIENCE

Software Engineering Intern, Eightfold AI   **NOIDA, INDIA**
Feb'21-Jul'21

1) Founding member of the Talent Insights and Analytics team and collaborated with Engineering and Machine Learning team to build the future of Talent Intelligence products for 100+ customers worldwide
2) Worked in a high impact startup environment to build infrastructure from the ground-up to enhance existing analytics workflow to improve efficiency by 50%
3) Developed an internal API for skill clustering at scale using Machine Learning and pushed it to production
4) Developed python scripts for automating routine tasks like data extraction, data cleaning and data wrangling using NoSQL, Apache Solr and AWS for insights extraction which helped scale up the team by 4x
5) Restructured and revamped the entire Insights delivery pipeline at Eightfold by building a first-of-its-kind Talent Insights tool to extract and transform global talent data from 1M+ public profiles in a structured format (XLSX/CSV) at scale

Research Intern, University of Toronto   **REMOTE**
Collaborated with a team working under Prof. Animesh Garg at PAIR lab, University of Toronto   Jan'21-Mar'21

1) Developed a Neural Network for Multi-Object Tracking (MOT) on instructional videos which is widely used in Home Robotics
2) Implemented FairMOT and CenterTrack to achieve qualitative and quantitative results on large scale pedestrian datasets

Undergraduate Research Assistant, Thapar Institute of Engineering Technology   **PATIALA, INDIA**
In collaboration with Tel Aviv University, Israel   Jul'20 to Nov'20

1) Worked with a team of 3 researchers to develop an efficient data pipeline using python and OpenCV for subsetting large deepfake datasets
2) Developed and proposed a novel CNN based VGG16-LSTM model using TensorFlow and Keras for deepfake detection with 97% Accuracy Code

ACADEMIC PROJECTS

Autonomous Food Delivery Bot   **PATIALA, INDIA**
Collaborated with a team of 4 students for undergraduate thesis at TIET, Patiala   Jan'20 to Nov'20

- Developed an autonomous food delivery vehicle using AI powered computer vision
- Developed a cross-platform mobile application using Flutter for placing and tracking orders along with IoT based locking mechanism
- Integrated various APIs into the mobile application like Google Maps API for live order tracking and Razorpay Payments API for placing orders
- Developed a Neural Network for steering angle prediction and object detection using Python, Tensorflow, Scikit-image and Scikit-video Code

Detecting Medical Issues from Chest X-Ray Images using Convolutional Neural Networks   Apr'20 to May'20

- Capable of detecting medical issues like Atelectasis, Cardiomegaly and Edema
- Employed Grad-CAM technique to construct a gradient based heat map to localize the detected disease

Development of Python Package for TOPSIS Technique   Jan'20 to Feb'20

- Implemented TOPSIS technique in Python as part of Data Analytics and Visualization course
- Developed a python package and contributed to opensource by pushing it to PyPI.org Code

TECHNICAL SKILLS

- **Programming Languages** - C, C++, Python, HTML, CSS, UNIX, Linux, MySQL and NoSQL
- **Deep Learning Frameworks -** TensorFlow, PyTorch and Keras
- **Image Processing Frameworks** - OpenCV, Scikit-image, Scikit-Video
- **Data Analytics** – Microsoft Excel, NumPy, SciPy, Python Scripting and Automation