Jinesh Mehta

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Education

Master's in Computer Science - Khoury College of Computer Sciences
- Duration: **2 years**   • Year: **Sept 2021 - July 2023 (Expected)**

B.Tech. in Computer and Communication Engineering - Manipal Institute Of Technology
- Cumulative GPA : **8.37 / 10.0**   • Year: **Aug 2013 - July 2017**

Skills

- **Languages & Frameworks**
  Python • Java • C++ • Keras • PyTorch • Qt

Employment

Software Engineer II - Honeywell Technology Solutions Lab Pvt. Ltd   *Oct 2019 - July 2021*

- Laid out multiple frameworks that facilitate post-processing of CFD simulations, allowing users to reduce their development cycle time by 20%.

Software Engineer I - Honeywell Technology Solutions Lab Pvt. Ltd   *July 2017 - Sept 2019*

- Remodeled four aerospace analytical tools to optimize and remove ambiguity, resulting in additional annual productivity savings of **$1,000,000** for Honeywell Aerospace.

Scientific Staff - Center for Artificial and Machine Intelligence (CAMI)   *Oct 2015 – June 2017*

- Engineered deep learning algorithms used for recognizing fraud detection and clustering algorithms for weather predictions and earthquake studies.

Publications

(HCA-DBSCAN) HyperCube based Accelerated Density Based Spatial Clustering for Applications with Noise | *NeurIPS Workshop 2019* | https://arxiv.org/abs/1912.00323

- Innovated a novel grid-based clustering algorithm, which reduces the number of comparisons for forming clusters exponentially, resulting in reduction of the overall time complexity to $n^{3/2}$ better than n^2 complexity of the traditional DBSCAN algorithm.
- Acquired a significant computational speed up-to 58% over other improvements of the DBSCAN algorithm while maintaining 100% accuracy.

Face Detection and Tagging Using Deep Learning | *International Conference on Computer, Communication and Signal Processing (ICCCSP) 2018* | https://ieeexplore.ieee.org/document/8452853

- Engineered the concept of Multi-view Face Detection and Tagging using Convolutional Neural Networks (CNN) - identifying faces from an image and provide labels to the detected faces using the Tensor-flow framework and Caffe library.
- Acquired an overall accuracy of 85% for facial recognition.

Pothole Detection and Analysis System (PoDAS) for Real Time Data Using Sensor Networks | *Journal of Engineering and Applied Sciences 2017* | https://www.medwelljournals.com/abstract/?doi=jeasci.2017.3090.3097

- Constructed a low-cost wireless sensor-based end-to-end system using Ultrasonic sensors, Arduino Uno R3, GPS module, Gyro-scope and Accelerometer. Further, the location of detected potholes are notified to the appropriate government bodies using this system.