

Sandeep N Menon

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EDUCATION

NIT SURATHKAL

BTECH IN COMPUTER SCIENCE

May 2018 | Karnataka, India

CGPA: 8.83/10

KENDRIYA VIDYALAYA RB

Grad. May 2014 | Kottayam, Kerala

2nd in class, 97.00%

Centum in Mathematics

COURSEWORK

UNDERGRADUATE

Computer Vision

Artificial Intelligence

Linear Algebra

Probability Theory

Advanced Data Structures

Graph Theory

ONLINE

Computer Vision Nanodegree

Udacity Nanodegree

(Image Captioning using CNN-RNN,
Landmark Detection and Tracking using
2D Graph SLAM)

Deeplearning Specialization

deeplearning.ai

(Neural Networks and Deep learning,
Structuring Machine Learning Projects,
Convolutional Neural Networks,
Sequence Models)

Statistical Learning

StanfordOnline: STATSX0001

(Boosting trees, Discriminant
Analysis, Splines, Support vector machines)

EXPERIENCE

DEEPEEN AI | DEEP LEARNING RESEARCH ENGINEER

September 2020 - Present | Hyderabad, India

- Developed offboard deep neural network prediction pipeline to get semantic segmentation of 3D point cloud sequences. Pre-labelled sequences improved data annotation speed by 30%.
- Designed augmentations to the Sparse Point-Voxel CNN model for domain adaptation to achieve mIoU score of 76% for 3D Semantic Segmentation.
- Implemented Object-aware Anchor-free Tracking for 2D Visual Object Tracking.
- Implemented VPGNet model for lane segmentation and classification.
- Developed on-demand GPU VM allocation system in Azure. Dynamic allocation and de-allocation of expensive GPU machines as per need, saving upto 1000 USD per month.

MICROSOFT | SOFTWARE ENGINEER

June 2018 - September 2020 | Hyderabad, India

- Developed new machine learning method to identify similar won deals in CRM context for *Relationship Analytics* in Dynamics 365. (Patent pending)
- Shipped *Dynamics 365 Sales Insights connector* in Microsoft Flows. Handles more than 9M monthly requests.
- Received two promotions in two years.

MICROSOFT | SOFTWARE ENGINEERING INTERN

May 2017 - July 2017 | Hyderabad, India

- Developed multi-tenant NLP pipeline to extract actionable insights from sales executive notes.
- Received full-time position offer after the internship.

PUBLICATIONS

- [1] Y. A. A. B. N. Sandeep N Menon, V B Vineeth Reddy and D. J. Rajan. A novel deep learning approach for the removal of speckle noise from optical coherence tomography images using gated convolution deconvolution structure. *3rd International Conference on Computer Vision & Image Processing*, 2019.

PROGRAMMING SKILLS PROJECTS

Proficient:

C++ • C# • Python • JavaScript

MySQL

Project experience:

PyTorch • Tensorflow • Keras • SciPy

OpenCV • Azure • React.js • Three.js

VIRTUAL GYM TRAINER | [Demo link](#)

- Developed a platform where trainers upload their exercise specifics and then users are guided through them using audio and visual cues.
- Real-time human pose estimation using PoseNet network and geometric estimations to measure correctness of posture while exercising.

EXTRA CURRICULAR

- President of Web Enthusiasts Club NITK
- Core executive member at IEEE NITK Student Chapter
- 1700+ rated chess player in Chess.com

AWARDS

2020	Patent	Microsoft Patent Award
2019	1 st position	Microsoft Intelligent Edge Hackathon
2017	Best short paper	Microsoft Artificial Intelligence Meet
2017	4 th /1000+	IEEE Xtreme 11.0 Programming Competition
2014	Top 0.1%	National Level Mathematics Board Exam