

Saurabh Shubham

B.E. Computer Engineering

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Education

- 2015–2019 **Army Institute of Technology Pune**, *Computer Engineering, Bachelors of Engineering.*
GPA: 8.4/10
- 2012–2014 **Paramount Academy**, *Muzaffarpur, CBSE, Class XII.*
Percentage: 87.8%
- 2011–2012 **D.A.V. Public School**, *Muzaffarpur, CBSE, Class X.*
GPA: 10/10

Experience

- Aug 2018 **Visteon Technical And Services Center**, *COMPUTER VISION INTERNSHIP, ADAS TEAM.*
(Ongoing)
 - Optimization of lane detection and classification algorithm which is to be used in LKAS (Lane Keeping Assistance System).
 - Technologies used: ROS, Caffe, C++, Python.
- Sep 2017 – **Intel Indexer(Janta express)**, *FULL STACK + DATA SCIENCE INTERNSHIP.*
Jan 2018
 - Data pipelining using PostgreSQL database with Django framework to automate data collection and data preprocessing from GDELT and Quandl.
 - Built an API endpoint for Timeseries Forecasting on GDELT data.
 - Realtime map visualization of events categorized on CAMEO codes using mapbox API.
 - Technologies used: Django, PostgreSQL, Mapbox API, Keras.
- July 2017 – **Gofind.ai**, *DATA SCIENCE INTERNSHIP.*
Oct 2017
 - Extended the visual search capability from lifestyle domain to furniture domain.
 - Got accuracy upto 78% for overall 24 classes of furniture.
 - Technologies used: Google Cloud Platform, Tensorflow, Transfer Learning.

Projects

- Aug 2017 – **Real Time Bus Navigation System**, *FULL STACK DEVELOPMENT.*
Oct 2017
 - A system developed to gather information like bus route and bus stops between source and destination.
 - Track real time position of buses around the user, filter from these buses and show the buses that are on user's entered path with the help of Google map API.
 - Technologies used: Android Development, NodeJs, Firebase, Google Map API.
- Feb 2018 – **Buy-n-Earn**, *FULL STACK DEVELOPMENT.*
March 2018
 - An affiliate shopping website which offers cashbacks to users for making purchase on e-commerce websites like Amazon and Flipkart through our website.
 - Website is monetized which earns through the affiliate shopping network and through advertisements displayed.
 - Technologies used: NodeJs, Firebase, Affiliate Marketing, PayPal API.
- Jan 2018 – **Smart Classroom System**, *FULL STACK DEVELOPMENT + INTERNET OF THINGS.*
March 2018
 - An IoT based project, aimed towards making the classroom environment smarter.
 - Implemented face recognition for automatic attendance record maintenance, background detection to manage power settings and gestures to control slide transitions for presentations.
 - Technologies used: RaspberryPi, NodeJs, Firebase, Google Cloud.

- Jan 2018 **Recommender system**, MACHINE LEARNING.
- A recommendation system which recommend similar products based on title, image, brand, and color. .
 - Google's Word2Vec model used for word embedding and VGG16 is used to extract high level features from image.
 - Technologies used: Word2Vec, Transfer Learning.
- Dec 2017 **Style Transfer**, DEEP LEARNING.
- This project is implementation of fast style transfer from the paper Perceptual Losses for Real-Time Style Transfer.
 - Used Adaptive Instance Normalization technique instead of batch normalization which improve stylized image.
 - Technologies used: Transfer Learning.
- May 2018 **Caption Generator (ongoing)**, DEEP LEARNING.
- Involves generating captions from images as a combine application of Natural Language Processing and Computer Vision.
 - Inspired by paper - Deep Visual-Semantic Alignments for Generating Image Descriptions
 - Technologies used: Transfer Learning, Convolutional Neural Network, Recurrent Neural Network.

Certifications

- March 2018 – **Deeplearning.ai**, *Neural Networks and Deep Learning(99.3%), Improving Deep Neural Networks(99.2%), Structuring Machine Learning Projects(96.7%), Convolutional Neural Networks(99.5%), Sequence Models(100%)*, by Andrew Ng.
- May 2018 **Deep Learning with TensorFlow**, by IBM Cognitive Class.

Technical Proficiency

- C, C++, Python, Data Structure and Algorithms
- HTML, CSS, Javascript, jQuery, Bootstrap, AngularJs
- NodeJS, Django, Flask
- Web Development, Android app development, Web Scraping
- Internet of Things
- OpenCV, Keras, Tensorflow
- Google Cloud Platform, Microsoft Azure
- Statistical Algorithms(Regression, Classification, Clustering)

Additional Courses

- Machine Learning (Coursera)
- Deeplearning.ai (Coursera)
- CS 20: Tensorflow for Deep Learning Research.
- CS224d: Deep Learning for Natural Language Processing by Richard Socher.
- CS231n: Convolutional Neural Networks for Visual Recognition by Andrej Karpathy.