Jinesh Mehta

Curriculum Vitae

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https://github.com/mehtajinesh

Education

2013–2017 **Bachelor of Technology, Computer and Communication Engineering**, *Manipal Institute of Technology, Manipal University*, India, *GPA – Sem 1 : 6.84, Sem 2 : 7.84, Sem 3 : 7.62, Sem 4 : 8.34, Sem 5 : 9.16, Sem 6 : 8.56, Sem 7 : 9.67; Sem 8 : 9.15 CGPA – 8.39.*

2012–2013 **12th**, *St. Xavier's High School*, Jamnagar, *Percentage – 69.6.*
Specialized in Science

2010–2011 **10th**, *St. Xavier's High School*, Jamnagar, *Percentage – 77.2.*

Experience

Vocational

Aug 2017 – Present **Software Engineer**, Honeywell Technology Solutions, Bangalore.
I am working as a software engineer which deals with developing and updating all the mechanical and aviation tools required by the in-house engineers while designing different power and engine systems.
https://www.honeywell.com

Sep 2015 – May 2017 **Scientific Staff**, Center for Artificial and Machine Intelligence, Manipal Academy of Higher Education.
I was working on Natural Language Processing (NLP) and unsupervised machine learning problems in the context of density based clustering. Along with NLP, we are also exploring some more applications using Deep Learning in real time systems.
https://goo.gl/24mUnE

June 2016–July 2016 **Summer Intern**, Fracktal Works Private Limited, Bangalore.
This internship mainly focuses on upgrading a software called "Fracktory" which helps communicating the sending and receiving printing data between the server and the client. This core update includes adding a cross platform desktop interface for enabling simpler wireless communication between a 3D printer and client. This helps reducing input parameters from the client's side.
https://github.com/FracktalWorks/Fracktory

Jan 2016 – May2016 **Researcher**, Stanford Crowd Research Initiative.
I was part of a worldwide group of researchers led by Michael Bernstein in Stanford CS. The research direction of the group is to "Design the Next-Generation Crowdsourcing Platform" in the space of human-computer interaction exploring a self governed crowdsourcing marketplace designed to amplify trust in crowd work.
http://crowdresearch.stanford.edu

June 2015–July 2015 **Summer Intern**, Reliance Industries Limited, Jamnagar, Gujarat.
During this training period I was given a chance to accompany the engineers at various places of the refinery to solve various issues regarding IT which gave me more practical perception as well as knowledge. This issues include maintenance of servers, install optical fibers for inter telecommunication and setting up switches and routers for communicating within the whole refinery.
http://www.ril.com/

Miscellaneous

2015–2016 **Director Vocational**, *Rotaract Club of Manipal*, Manipal.
Handle all the communication with other rotary clubs and helping them managing various fund raising events, blood donation camps and orphanage/ old age home visits.

2014–2015 **Executive Head**, *Rotaract Club of Manipal*, Manipal.
Communicating with all the event managers and organizing fund raising events like some cultural DJ nights along with blood donation camp as well as cloth collection drive.

Publications

Feb 2018 **Face Detection and Tagging Using Deep Learning**, Jinesh Mehta, Eshaan Ramnani , Sanjay Singh, International Conference on Computer, Communication, and Signal Processing.
In this project, I am trying to analyze the concept of Convolutional Neural Networks which is used to identify the faces in an image having differently orientated faces. Scores are generated by providing heat maps (caffe library) for each image which enables to detect the face. Once the heat maps are generate for each image, we create a model using the training set where each face has its own model. Hence when we use the test data, we scan for new faces and tag the label using the training model. If the face is not recognized, the user is asked to enter the label manually and it is then updated in the database.
https://goo.gl/XuBBFi

Feb 2017 **Pothole Detection and Analysis System (PoDAS) for Real Time Data using Sensor Networks**, Jinesh Mehta, Vinayak Mathur, Dhruv Agarwal, Atish Sharma, Krishna Prakasha, International Conference on Innovative Research in Engineering and Science, Asian Institute of Technology Conference Center, Thailand.
We propose a system which is attached to government buses or even on private vehicles on the belly which have the following sensors: Accelerometer, GPS Module and Ultrasonic sensor. This helps us in feteching real time information about potholes which is send to the cloud at intermediate checkpoints. At the server end, data can be analysed which can be used to improve the quality of the road.
http://docsdrive.com/pdfs/medwelljournals/jeasci/2017/3090-3097.pdf

Projects

Nov 2016 **HCA-DBSCAN: HyperCube based Accelerated Density Based Spatial Clustering for Applications with Noise**, A new clustering algorithm called HCA-DBSCAN was purposed which can significantly reduce the computational complexity of the DBSCAN algorithm while maintaining its accuracy. HCA-DBSCAN uses grids to create various clusters and merges them if they are similar to each other by a threshold value given by user.
https://goo.gl/8kPRxg.

Dec 2016 **Group Suggestion Application using Hadoop**, *There are two parts of the developed application in which the first one is a basic chat app to collect some text data for each user and other is to identify cluster for each user according to their text indexing with the help of Hadoop to speed up the computation .*

April 2016 **Hamlet:A Rural Field Mapping Application**, *The idea of Hamlet finds the people who require helping and are underserved households in rural areas via technology which requires a lot of data acquisition and analysis to efficiently address their problems.*

Nov 2015 **Stocket**, *Developed an application which helps a laymen to get a flavor of the stock market virtually. The application was java based with oracle database 11c as a back end. Basic idea behind designing this application was to help a newbie develop his stock market skills without risking actual money.*

Nov 2015 **Euphemia**, *Developed an application which is a blood bank management application designed using C# and PHP as online database. Any hospital or blood bank offices faces a huge problem while keep the track of incoming as well outgoing flow of blood. So to address that issue, this application was built which can reduce the overhead from the human manager. Another advantage provided from this is updates being done in real time .*

March 2015 **FruitNinja for Kinect**, *Developed a Kinect Application at code.fun.do student Hackathon at MIT MANIPAL organized by Microsoft.This application basically throws random fruits on the screen and you have to use your hand (given to kinect as gesture input)as knife to cut the fruits. A score is shown in the end which is used to make the other users to compete.*

Awards

March 2016 Successfully completed Networking and Cyber Security workshop on cisco devices and got qualified for grand finale Of Braintech Networking and Cyber Security Championship-2016 conducted by Azure Skynet and IIT Kanpur.

2010 Awarded with Rajya Puraskar for scout.

Computer skills

Basic LaTeX,Microsoft Visual Studio, Hadoop

Intermediate C, C++,Oracle 11c,Linux, Android Studio

Advanced Python,Java,MySQL

Related Coursework

- Data Mining and Predictive Analysis
- Machine Learning
- Artificial Intelligence and Applications
- Database Management System

Courses and Workshops

Nov 2014 **Ethical Hacking and Information Security**, *Mr.Ankit Prateek,CEO at Open Security Academy*.

April 2016 **Machine Learning**, *ISTE students chapter Manipal.*.

Recommendation

- Dr.Preetham Kumar, Professor & Head - Department of Information & Communication Technology, MIT, preetham.kumar@manipal.edu
- Dr.Sanjay Singh, Professor, sanjay.singh@manipal.edu
- Krishna Prakasha K, Assistant Professor - Senior Scale, Department of Information & Communication Technology, MIT, kkp.prakash@manipal.edu
- Tribikram Pradhan, Assistant Professor, tribikram.pradhan@manipal.edu