Krisha Mehta

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EXPERIENCE

IIT Bombay, Mumbai — *Machine Learning Intern*

June 2017 - PRESENT

Working on the optimization of smart sensors using Machine Learning to develop more accurate monitoring of air quality based on various factors like temperature, wind speed, traffic index etc.

Codebreak, Mumbai — *Developer*

June 2017 - July 2017

Developed solutions to generate user dependent investment portfolios using Machine Learning algorithms.

DJ-CSI, Mumbai — *Editor*

August 2016 - April 2017

Wrote various technology related articles on Green Computing, Google Open Source Projects and Amazon Go for the newsletter and magazine.

EDUCATION

D.J Sanghvi College of Engineering, Mumbai — *B.E, Computer Engineering.*

2015 - 2019

K.J Somaiya College of Science and Commerce, Mumbai — *Senior Secondary*

2013 - 2015

S.V.D.D English Medium School, Mumbai — *Primary and Secondary*

2003 - 2013

SKILLS

Web Development: HTML5, CSS3, JavaScript,jQuery,Django, Bootstrap,Php.

Languages: C,C++,Java,Python,Octave,R, MATLAB.

Database Management System: MySQL.

Machine Learning Libraries: Scikit-learn,Pandas, TensorFlow,NumPy,PyBrain.

Operating Systems: Linux,Windows

AWARDS

Secured 1st position in **CodeShastra 2017**, an intercollegiate hackathon organised by DJ-CSI.

Secured 2nd position in **API 2017**,an intercollegiate hackathon organised by DJ-ACM.

Participated and qualified for **CodeVita V**-Round 2 in 2016.

Participated in **Smart India Hackathon 2017**

PROJECTS

Air quality monitoring- Given the rise of indoor air pollution in various cities, developed a more accurate model to monitor air quality using multilayer perceptron neural networks. Further, implemented algorithms like SVM and Naive Bayes classification to understand the relationship between pollutants, traffic index and other natural conditions.

Lab Equipment Rental System- An inventory for college labs with provision for borrowing and lending equipments that can be used by other students. Also linked to a forum with various categories , built using Misago to solve student queries. The website had a simple and clean UI for easy use.

Animations for Children-Animations to teach Physics,Chemistry and Maths using three.js library.The animations are developed using only the three.js library.

Disaster Management Website-A disaster management dashboard to coordinate and manage disaster relief and response. Some of the features are automatic suggestion of disaster triage sites based on the location of disaster, clustering of text messages received from victims based on their meaning, facial recognition to identify victims and prevent pilfering of relief, intelligent location based SMS alerts to guide victims of the disaster.

Meetup Website-A website that allows the users to organise or participate in various meetups based on their location and interests.

Text Editor-A text editor in C built without any dependencies. The editor has various features like search and syntax highlighting.

Colornets-Currently building a model that uses a black-and-white image and adds color to it using convolutional neural-nets. A pre-trained neural net (VGG) is used as a base-network to extract features. More layers will be used to add colors.

COURSES TAKEN

Structured Programming Approach, Data Structures,Object Oriented Programming, Analysis of Algorithms, Theoretical Computer Science, Database Management,Operating Systems,Computer Networks

VOLUNTEER WORK

Mentor at **Learn IT Girl**, an initiative by **Anita Borg Institute for Women and Technology.**

Working as a web developer for **PyCon 2017**.

A writer at **Girls Who Code**, an organisation that encourages girls all over the world to learn how to code.