

Indian Institute of Technology Mandi Computer Science and Engineering

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RESEARCH INTERESTS Neural Networks, Statistical Learning Theory, Reinforcement Learning

EDUCATION

Indian Institute of Technology Mandi, India

August 2013 - Present

B.Tech in Computer Science and Engineering Grade Point Average (GPA) of 8.10/10

Aishly Public School, Haryana, India

2012

12th Standard, C.B.S.E, Percentage: 90.2

ST. Xavier School, Rajasthan, India 10th Standard, C.B.S.E, GPA: 9.6/10

2010

WORKSHOPS

Winter School of Machine Learning 2015, Bangalore, India

Selected to attend (with full scholarship) Machine Learning Winter School held at Xerox Research Centre India in December 2015 themed around Theoretical Machine Learning and Inference.

EXPERIENCE

Software Intern, Nucleus Software, Noida, UP, India

Jun 2016 - Aug 2016

- Automated the process of converting Spring MVC + JSP Web-framework to Spring MVC + AngularJS Web-framework.
- · Project reduced server load, effort and cost of engineering and decreased the bandwidth usage.

ML Research Intern, Xerox Research Centre, Bangalore, India Dec 2015 - Jun 2016

- · Research and worked on building a prediction model to solve a real world problem of predicting possible diseases a patient could be diagnosed in the future, constrained that the patient is present in hospital.
- · Studied performance of Machine learning algorithms such as Decision trees, random forest, boosting, neural networks, recurrent neural network.
- · Achieved an accuracy of 95%

PROJECTS

Segmentation and classification of Bird Images and Videos Sep 2016 - Present

- · Project aim to study various Segmentation Algorithms and to develop a image Segmentation technique using various Pattern Analysis technique to separate birds from the background image and then to classify the bird in different classes.
- Developed a Segmentation technique using Gaussian Mixture Model and SVM.

Santander Customer Satisfaction, Kaggle

Mar 2016 - May 2016

- · Developed a Machine Learning model for identify dissatisfied customers early in their relationship, so as to improve relations in future.
- Trained a Xgboost Model considering good feature selection and got best ROC score of 0.827610.

Sentiment Analysis of Tweets

May 2016 - Aug 2016

- Developed a Sentiment Analysis Engine for studying the behaviour of the tweeter's trending topics.
- Python based Engine was developed using NLTK library (Link).

"Nearby Hospitals" an Android Application

Jun 2016

- Developed an android application that provides detailed description and directions of nearby hospitals. Application saves previous checkup records and provides booking utility.
- Google Maps and Google SignIn API were integrated with the application.

Call Rating Engine for Postpaid Telephony

May 2016

- Created an application that computes balance of users via rating engine, then update the subscriber's balance with accounting engine.
- Scalable application was made and tested for millions of active subscribers and hundreds of concurrent calls.

Online Judge

Oct 2015 - Nov 2015

 Developed an online platform where users can submit codes and the platform provides detailed evaluation of the code in terms of time and space complexity, execution time, errors.

SKILLS

Programming Languages: C, C++, R, Python, Matlab, JavaScript

Machine Learning Framework: Scikit-Learn, TensorFlow, Theano, Xgboost

Databases: MySQL, SciDB, MongoDB

Web-Development: HTML, CSS, Bootstrap, AngularJS

Tools: Android Studio, R Studio, Tableau, Latex, Hadoop, OpenMPI, Git

COURSEWORK

Pattern Recognition, Artificial Intelligence, Machine Learning, Digital Image Processing, Design of Concurrent System, Operation Research, Computational Financial Modelling, Databases, Advance Data Structure and Algorithms, Operating System, Probability and Statistics, Neural Networks

ACHIEVEMENTS

- Silver Medalist at Inter IIT Technical Meet 2016 in Portfolio defender problem statement.
- All India rank 4th in Machine learning challenge held at Xerox research centre, India.

POSITIONS OF RESPONSIBILITY

Academic Secretary, IIT Mandi

Jun 2015 - Jun 2016

Represented students at the institute Senate Meetings.

Co-ordinator of NSS Literary Society, IIT Mandi

Mar 2015 - Mar 2015

· Responsible for all the Literary events of NSS, IITMandi.

Club President Student Editorial, ST. Xavier School

Apr 2009 - Jan 2010

· Chief Editorial of school magazines and newsletters.