



TINKU DHULL

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AEROSPACE ENGINEERING (B.Tech)



EDUCATION

Year	Degree/Qualification	Institute	CGPA/Marks
2018	B.Tech	IIT Kharagpur	8.04 / 10
2014	Higher Secondary	CBSE Board	89.6%
2011	Diploma	AICTE Board	74.5%
2008	Secondary	Haryana Board	10 / 10

WORK EXPERIENCE

Project Engineer	Wipro Technologies Pvt. Ltd.	June 2018 - Present
<ul style="list-style-type: none">Completed pilot project on 'drowsiness detection' using python and OpenCVUsed python libraries like numpy, scipy, time module and image processing using imutils, opencv packagesWorking on data extraction from insurance documents using python regular expressions		

COMPETITIONS

Predict Ad Clicks	HackerEarth Machine Learning Challenge	July-August 2017
<ul style="list-style-type: none">Ranked 1 out of 5300 participants in the competition sponsored by IBM, won a prize money of \$700Predicted the probability of an ad click, created many new features to improve the model performance, got an auc of 0.684Used gradient boosting technique to train and validate the model on dataset of size 1.2 GB		
Movie Recommendation System	Capillary's IIT KGP Data Science Challenge	September 2017
<ul style="list-style-type: none">Built a movies Recommendation Engine based on the user history, secured 4th rank at my instituteUsed k-means clustering to create clusters of similar movies and recommending movies to a particular user		
Digit Recognizer	Kaggle	March-July 2017
<ul style="list-style-type: none">To correctly identify the digits from handwritten images, fully connected neural network resulted in an accuracy of 97.4%To increase the accuracy, used convolutional neural networks which boosted the accuracy to 99.47%		
Predict Damage to a Building	HackerEarth Machine Learning Challenge	June-August 2018
<ul style="list-style-type: none">Given the building and earthquake data, predict the degree of damage that is done to a building post an earthquakeDropped redundant features, used label encoding, feature normalization and LightGBM boosting algorithm for model buildingAble to achieve an F1 score of .7829 and featured in top 1% out of 7400 participants		
Understanding Customer Purchase Behaviour	Analytics Vidhya	March-April 2017
<ul style="list-style-type: none">Using demographic data of customers and their purchase behaviours, built a model that predicts their purchase amountsNormalized the data after missing values imputation, applied various machine learning algorithms like random forests, linear regression, deep learning, gradient boosting to build the modelBuilt an ensemble model of two boosting algorithms which gave the best result		

INTERNSHIPS

Automation of Leave Management System	ValeurHR E-Solutions Pvt. Ltd.	May-June 2017
<ul style="list-style-type: none">The project aimed to devise a model that can automatically sanction or reject the leave application of an employeeTrained and tested the logistic regression model using 10 folds cross validation to avoid overfitting, got an auc of 0.8084The developed model replaced the manual method used before, hence increased efficiency and reduced latency		
Market Research	Zenten Media Pvt. Ltd.	June 2016
<ul style="list-style-type: none">Devised a new model to analyse the text data using statistical software R, saving a lot of manual work and timeAnalysed the social media data and finally came up with a list of top Dermatologists and Veterinary Doctors in GurugramThe proposed work was implemented in the company's website		

SKILLS AND EXPERTISE

- Programming Languages: R (proficient), Python (proficient), C (Intermediate), Java (Intermediate)
- Data Analytics: Machine Learning, Natural Language Processing, Deep Learning

RELEVANT COURSES

- Probability and Statistics
- Linear Algebra
- Programming and Data Structures

EXTRA CURRICULAR ACTIVITIES

- Part of 2 consecutive gold winning inter-hall Water-polo team, gold winning illumination and silver winning Rangoli team
- Volunteer in National Service Scheme (NSS), taught English and Mathematics in Primary School, surveyed 2 villages and helped people in opening bank accounts