MOHIT SINGHAL

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Education

M.Tech Computational and Data Sciences **2022 – Present**
Indian Institute of Science, Bangalore *CGPA: 7.3*

B.Tech Electronics and Instrumentation Engineering **2014 – 2018**
Ymca University Of Science and Technology, Faridabad *CGPA: 6.76*

Relevant Coursework

- Machine Learning
- Numerical Optimization
- Bayesian Learning
- Intro to Data Science
- Linear Algebra
- Random Variates
- Tensor Computation

Projects

Loan-Default-Prediction **May' 23**

- Using machine learning techeniques such as Ridge, Lasso, ElasticNet,Gaussian Naive Bayes, K-Nearest Neighbors, Decision Trees, Random Forest, AdaBoost, Bagging, and XGBoost for loan default prediction
- .Fine-tuned hyperparameters, optimized models for performance, and evaluated them using metrics like Mean Squared Error (MSE), Mean Absolute Error (MAE), and Accuracy.

Face Mask Detection **May' 23**

- Using "Real-world masked face recognition dataset"(RMFRD) and classifying individuals into three categories: those correctly wearing masks, those wearing masks incorrectly, and those not wearing masks at all.
- Finetuning a pre-trained ResNet-50 model on our dataset and obtaining an accuracy of 89 peccent

Performing Twitter Sentiment Analysis Using BERT **Apr' 23**

- Performed text classification by extracting features using TF-IDF and Word2Vec
- .Fine-tuned BERT model with custom output layer and compared it with another model.

Car Price Pridiction **Apr' 23**

- Using a dataset of available cars with various features about body and efficiency , prediction of car prices.
- Using different ML techniques(Simple Linear Regression Multiple Linear Regression, Polynomial Regression, Support Vector Regression, Decision Tree Regression, Random Forest Regression).

Implemention of Optimization Algorithms **Apr' 23**

- Implementing line search metheods ,linear programming (Simplex)and quadratic programming(Active set).

Internships

Junior Associate, Sapient Nitro **May' 17 – Jan' 18**

- Description:The project Library Management System aims at developing a fully functional computerized system to maintain all the day to day activities of a library .

Technical Skills

Programming Languages: Python, C++
Tools: PyTorch, Numpy, Sci-kit Learn, OpenCV
Technical: Machine Learning, Image Processing, Optimization, Deep Learning

Academic Accomplishments

∗ 98.45%tile in GATE-CS 2022 .
∗ Certification in Recent Advances and Entrepreneurship in Renewable Energy (2016) .