Nikhil Raj

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Educational Qualifications

Year	Degree/Certificate	Institute	CPI/%
2019 - Present	B.S.	Indian Institute of Technology, Kanpur	6.1/10.0
2019	CBSE-XII	S.K.Mother International School	76%
2017	CBSE-X	S.K.Mother International School	10.0/10.0

Projects

Loan Prediction | *Analytics Vidhya* | *Self Project* | *Python*   *July'21*
- Developed a machine learning model to classify good and bad customers and ranked to there default probability
- Applied (EDA) techniques for data cleaning and feature understanding and trained a logistic regression for prediction
- Secured 156th rank on the leaderboard among 2000+ participants attaining an overall prediction accuracy of 91%

Face Detection | *Image/Video Analytics* | *Computer Vision* | *Self Project* | *Python*   *Dec'20*
- Developed an object detection system for images and videos using computer vision and open cv concepts
- Applied Cascade classifier for image detection and achieved an overall accuracy of 98% in top 100 images/videos

Login and Registration | *Self Project* | *C++*   *Sept'21*
- Developed a Login and Registration system to capture the details of username and password and update any details
- Used C++ builder for interface designing, environment set up and used concepts of File Handling,Functions,etc.

COVID19 prediction using Machine Learning | *Course Project* | *Prof. Somesh Mathur*   *Jan'21 - Mar'21*
- Used distributions like Weibull, Gaussian, Log-Normal to identify the best fit model over covid dataset
- Used python libraries Pandas, NumPy, Seaborn, Matplotlib for plotting Various Probability Distribution Curves
- Used reliability package in python to found out the best distribution available for certain analysis
- Used Levenberg-Marquardt (LM) algorithm for identifying parameters to gain best possible curve fitting
- Examined the credibility of the model using three different metrics - MAE, MSE and R2-Score

Technical Skills

- **Languages :** Python, C, C++, SQL, HTML, CSS
- **Libraries :** Numpy, Pandas, Open CV, Matplotlib, Scikit-learn, Seaborn
- **Tools:** Excel, Word, PowerPoint

Relevant Courses   ** - Online Courses*

Applied Probability and Statistics	Fundamentals of Computing	Econometrics 1
Growth Economic Theory	Data Structure and Algorithms	SQl Foundamentals*
Financial Econometrics	Development Economics	Machine Learning*

Positions of Responsibility

- Junior executive at Hospitality in Asia's largest cultural festival, Antaragni 2019
- Junior Executive, Public Relation at one of the largest inter-college sports festival, Udghosh 2019

Extra Curricular

- Volunteered in National Cadet Corps at Indian Institute of Technology Kanpur for academic year 2019-20
- Volunteered in Blood Connect Organisation, helping to create Blood Awareness, Conducting Blood Donation Campus
- Participated in Untangle, Gupchup, Tark, Kirdaar in Galaxy 20, Intra IITK Cultural Championship
- Participated in Intra Hall Cricket Championship and Won the first Prize
- Compose and program music in python using Earsketch