

NIKITA RAUT

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EDUCATION

Northwestern University Evanston, Illinois		2019 - present
MS in Computer Science		
Ongoing Coursework	Introduction to AI, Machine Learning, Data Science Seminar	
Upcoming Coursework	Winter (Deep Learning Foundations from Scratch, Statistical Pattern Recognition, Natural Language Processing), Spring (Design and Analysis of Algorithms, Practicum in Intelligent Information Systems Advanced Computer Vision)	
K.J.Somaiya College of Engineering Mumbai		2015 - 2019
Bachelor of technology in Computer Engineering, CGPA : 8.85 /10.0		
Relevant Coursework	Artificial Intelligence, Machine Learning, Neural Networks and Fuzzy Logic, Data Warehousing and Mining, Advanced Database Management, Image Processing, Data Structures, Operating Systems Analysis of Algorithms	
Other Courses	Machine Learning by Stanford University (Coursera), Deep learning specialization by deeplearning.ai,	

EXPERIENCE

KJSCE Machine Learning Internship		Dec 2017 - Jan 2018 Mumbai, India
Implemented a Real Time Face Recognition System using k-shot Learning. Performed transfer learning, using a resnet model pretrained on triplet loss function.		
Damage Detection System Machine Learning Internship		May 2017 - July 2017 Mumbai, India
Developed an Damage Detection System using image processing, which aimed at an early detection of cracks in inaccessible places. Achieved fast and reliable detection of cracks to concrete surfaces, replacing the slower subjective traditional human inspection procedures.		

SKILLS

Languages	Python, Java, C, C++
Libraries	PyTorch, Tensorflow, Keras, Tflern, Numpy, OpenCV
Databases	MySQL, Oracle11g, Postgresql, Firebase
Web Development	PHP, JavaScript, Bootstrap, AJAX, Express JS, Angular
Tools	Tableau, Spark, Databricks, D3.js, Matlab, Git

PROJECTS

Data Analytics on Chicago Police Dataset		Sept - Dec 2019
Performed relational analytics, visualization, graph analytics and machine learning on Chicago Police Dataset to learn about the general behavior of the officers charged with misconduct and to identify the trends in data		
Smart Goods Transportation System Final Year Project		July 2018 - May 2019
Designed and Developed a full stack software application using IoT technology and firebase cloud service to provide truck drivers, customers and vehicle owners with reliable information and communication support regarding journey schedule of patrons.		
Time Series Analysis for Best Travel Route		Jan - Feb 2018
Performed Time Series Analysis using ARIMA model to predict the shortest path between two endpoints. The dataset used for this time series was created using automated tools which collected the travel times for four different routes between the source and the destination from Google Maps, Ola and Uber		
Other Projects	Face Recognition using One Shot Learning, Battery usage analysis and optimization, Location Tracker for automated real time tracking of trusted entities by sharing proper keys	

PUBLICATIONS

Face Recognition using One-shot Learning	
Nikhil Thakurdesai, Nikita Raut and Anupam Tripathi. Face Recognition using One-shot Learning. International Journal of Computer Applications 182(23):35-39, October 2018.	