

Nidhi Ranjan

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EDUCATION

Courant Institute of Mathematical Sciences, New York University Dec 2022
Master of Science in Computer Science

National Institute of Technology Goa July 2018
Graduated with a Bachelor of Technology in Computer Science and Engineering

SOFTWARE SKILLS

Languages	Java, C/C++, Python, JavaScript
Database	MySQL, MongoDB, Oracle SQL, PostgreSQL
Frameworks	Angular 9, Pytorch, TensorFlow, Pandas, Keras, Scikit-learn, Flask, Springboot, Git
MOOC	Intel Edge AI Nanodegree, Neural Networks and Deep Learning

EXPERIENCE

Barclays, Pune, India | Analyst July 2018 — Jan 2021

- Redesigned and migrated Business Lending in Business Banking from AngularJS to Angular 9
- Contributed to enabling merchants as a business segment for the Online banking platform thereby developing front-end, back-end and authorisation solutions for it.
- Developed and designed features for merchant on-boarding, overview onto the Online Banking channel, with facilities of download and viewing of transactions. This added around 80,000 customers to the channel.
- Provided a tactical solution for multi business users and implemented new user experience for a Smart Business Dashboard which increased new registrations by 23%.
- Engineered a new UI/UX for Smart Business dashboard, with flexibility's for online update of personal data, which was earlier available only offline (User registrations went up by 3000 Business Customers in Week 0
- Contributed and developed a centralised platform for the development of Restful APIs. Developed Restful API for business instant lending feature, with the fault rate decreasing by 20%

Innoplexus Consulting Services, Pune, India | Data Science Intern May 2016 — July 2016

- Created a centralized platform for crawling , extracting and unifying pharmaceutical data.
- Automated the ETL(Extraction,Transformation and Load) processes for the pharmaceutical products Oilbird and Touchpoint.
- Utilizing Machine Learning, engineered an universal crawler that crawled data from various sources and accordingly segmented with an accuracy of over 89%.

PROJECTS

Predicting time to death for Sepsis Patients using Causal Inference New York University

- Estimated the effects of full interventions on a septic patient's time to death.
- We use LODE to estimate causal effects of full interventions on patients with Sepsis on MIMIC -IV dataset

Video Surveillance for COVID 19 Spread

- Developed a video surveillance application for crowd detection using one shot learning for identifying crowded hot spots during Covid-19
- Also incorporated mask detection in the crowd, crowd density and its segregation on the basis of zones into red/yellow/green based on districts for Indian demographics

Classification & Annotation in Medical Image Analysis IIT Mandi, NIT Goa

- Constructed a novel approach for classifying H&E stained breast histology microscopy images in four classes: normal, benign, in-situ carcinoma and invasive carcinoma, using CNN's in a hierarchical architecture.
- Approach garnered a 89% accuracy on test data, with a 15 rank worldwide

LEADERSHIP & AWARDS

2021	Recitation Leader - Mathematics for Economics	New York University
2020	Finalist - AWS Deepracer Marathon	Barclays
2020	Onboarding Buddy - Mentored new joiners in Business Banking Coordinator - Ways of Working	Barclays
2018	Vice President - Computer Science and Engineering Association	NIT Goa