

Nidhi Ranjan

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EDUCATION

New York University, Courant Institute of Mathematical Science | vGHC'21

Jan 2021 - Dec 2022

Master of Science in Computer Science

CGPA: 3.58/4

Relevant Coursework: Algorithms, Operating Systems, Computer Vision, Natural Language Processing, Programming Languages,

National Institute of Technology Goa

July 2014 - July 2018

Graduated with a Bachelor of Technology in Computer Science and Engineering

CGPA: 7.58/10

Relevant Coursework: ML, Advanced Algorithms, Graph Theory, Databases, Data Mining, Optimisation Techniques in Computing

SOFTWARE SKILLS

Languages	Java, C/C++, Python, JavaScript, HTML, CSS
Frameworks / Libraries	Angular9, Spring-boot, Spring, Flask, Django, Pytorch, TensorFlow, Scrapy, Git, Jenkins, Scikit-Learn
Database	MySQL, MongoDB, Oracle SQL, PostgreSQL
MOOC	Angular, Intel Edge AI Nanodegree, Neural Networks and Deep Learning

EXPERIENCE

Barclays | Software Development Engineer

Jul 2018 — Jan 2021

- Engineered migration of Business Instant Lending Application in Business Banking from AngularJS to Angular 9.
- Collaborated in a team of 5 to swiftly deliver Bounce Back Loan scheme during COVID 19 for emergency release as part of Barclays UK COVID relief.
- Developed solutions to enable merchants as a business segment for Online banking by developing authorisation workflows for it in Spring boot. User base of online business banking customers increased by 14%.
- Spearheaded development of a tactical solution for integrating multi business users into online banking platform and implemented new user experience for those customers in Smart Business Dashboard increasing new registrations by 23%.
- Decreased waiting time and dependency on support team by developing a dashboard for development and maintenance of Restful API's, with auto repair functionality on a predefined set of rules.
- Created restful API's to migrate business instant lending mainframe calls to internal API's to be used across all of Barclays UK. Fault rate reduced by 14%.

Innoplexus Consulting Services | Data Science Intern

May 2016 — Jul 2016

- Formalised a centralized platform for crawling, extracting and unifying over 5TB of pharmaceutical data using Flask.
- Automated the ETL(Extraction,Transformation and Load) processes for pharmaceutical products Oilbird and Touchpoint utilising Scrapy and Selenium, improving efficiency by 38%.
- Implemented an universal crawler to crawl pharmaceutical data from various sources and accordingly segment it into categories with the help of Scrapy and Selenium, reducing manual efforts by 75%.

PROJECTS

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

Mar 2021 — May 2021

- Estimated effects of treatment on ICU patients with Sepsis Infection on MIMIC- IV data set with a SOFA score greater than 2, trained a cox proportional hazard model achieving a concordance score of 0.76.
- Computed individual and average treatment effect from possible surrogate treatments for given confounders as well as current state of survival of patients leveraging LODE algorithm.

Video Surveillance for COVID 19 Spread | Personal

Sep 2020 — Dec 2020

- Engineered a video surveillance software application for crowd detection utilising one shot learning for object detection using YOLO for identifying crowded hot spots during Covid-19 in PyTorch achieving an accuracy of 85%.
- Formulated methods for mask detection in crowds, evaluated crowd density and segregated regions into red/yellow/green districts for Indian demographics.

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

Dec 2017 — May 2018

- Created a CNN based hierarchical classifier to help classify H&E stained breast histology microscopy images in four classes: normal, benign, in-situ carcinoma and invasive carcinoma in Tensorflow to predict Breast Cancer in patients. Achieved test set accuracy of 89%.

LEADERSHIP & AWARDS

Recitation Leader for Mathematics for Economics II (MATH-UA 212) at NYU Courant.	2021
Onboarding Buddy - Mentored new recruits in Business Banking, Coordinator- Ways of Working Committee at Barclays.	2020
Vice President of Computer Science and Engineering Association at National Institute of Technology Goa.	2018