

# YADHUKRISHNAN PANKAJAKSHAN

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## EDUCATION

### Northeastern University

Master of Science in Computer Science

2023 - Present

San Jose, California

### Anna University

Bachelor of Engineering in Computer Science and Engineering

2017 - 2021

Chennai, India

## RELEVANT COURSEWORK

- |                       |                           |                            |                         |
|-----------------------|---------------------------|----------------------------|-------------------------|
| * Algorithms          | * Data Mining             | * Engineering Mathematics  | * Database Management   |
| * Data Representation | * Big Data Analytics      | * Statistics & Probability | * Theory of Computation |
| * Data Management     | * Artificial Intelligence | * Machine Learning         | * Data structures       |

## WORK EXPERIENCE

### Software Development Engineer - BA3

Barclays

Sep 2021 - Aug 2023

Chennai, India

- Automated the testing process of programs that dealt with external synchronizing processes **over \$50000 every year**.
- Designed and developed a number of improvements for a devops application utilized internally by **more than 1000 peers**.
- Streamlined 10+ processes** using deployment pipelines for internal usage.
- Coded transaction marking algorithms that handles **over 10000 simultaneous users**.

## PROJECTS

### Digitalizing Handwritten Text using AI

Research Project

Oct 2020 - Mar 2021

- Assessed accuracy ratings for models to fairly compare their effectiveness with other models. Innovated **RNN models with depths of over 20 layers**.
- Using internal test data, reached upto **90% accuracy** when conventional OCR models couldn't even achieve 75%. Further inquiries regarding the necessity of training data and appropriate recognition model were also covered.

### Employability Rating System

Exploratory Project

Jan 2020 - Apr 2020

- Innovated a rating system to assess employability based on various factors like projects, internships and courses taken. Achieved a **testing accuracy close to 78%**.
- Built a regression model that evaluates based on individual scores judged by the regression model. Built the regression model using sample resume data from **1000+ resumes physically rated by peers and professors**.

### Collision Detection of Vehicles in Traffic

Hackathon Project

Sep 2019 - Jan 2020

- Traffic camera footage and number plate scans of **more than 4,000 vehicles from more than 70 angles** were used to simulate collision detection using computer vision.
- developed a mobile application for cops to track data, register traffic infractions, and receive notifications about penalties and insurance claims. App was tested with **five simultaneous camera feeds** to generate real-time responses.

### Detecting pneumonia using chest X-Rays

Hackathon Project

Sep 2019 - Jan 2020

- Trained a CNN model with 5000+ images** of chest X-rays to detect pneumonia.
- Integrated the model with a simple flask application. Finished as one of the **top 20 submissions** in a national level hackathon.

## SKILLS

**Programming:** Python, R, SQL, NoSQL, C, C++, Ruby, Javascript, Java

**Frameworks:** tensorflow, scikit-learn, pytorch

**Artificial Intelligence:** neural networks, regression modelling, computer vision, natural language processing

**Data Science:** mining, scraping, wrangling, modelling, charting & plotting

## RELEVANT URLS

### Coding:

- \* [codechef.com](https://www.codechef.com) : Peak rating of 1955 and current **international rank under 4000**.
- \* [codeforces.com](https://www.codeforces.com) : Peak rating of 1547 and presently **ranked a specialist**.
- \* [leetcode.com](https://leetcode.com) : Peak rating of 1922 and **presently ranked a Knight**.
- \* [atcoder.jp](https://www.atcoder.jp) : Peak rating of 1086 and presently ranked: Kyu 5.

### Others:

- \* [github.com\(yk-2310\)](https://github.com/yk-2310)
- \* [coursera.com](https://www.coursera.com)
- \* [hackerrank.com\(yk-2310\)](https://www.hackerrank.com/yk-2310)
- \* [codingame.com](https://www.codingame.com)