

YADHUKRISHNAN PANKAJAKSHAN

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SUMMARY

Data science student with a strong foundation in mathematics, data analysis and machine learning, eager to apply skills in real-world projects and contribute to problems that require data-driven insights.

EDUCATION

Northeastern University, San Jose, California

Master of Science in Computer Science

Sep 2023 - May 2025

Anna University, Chennai, India

GPA: 8.42/10

Bachelor of Engineering in Computer Science and Engineering

Aug 2017 - May 2021

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

PROJECTS

Digitalizing Handwritten Text using AI | CNN with CTC, RNN, OpenCV

Oct 2020 - Mar 2021

- * Assessed accuracy ratings for models to fairly compare their effectiveness with multiple models.
- * Innovated RNN models with depths of over **20 layers** and CNN models for character recognition.
- * Reached **90%** testing accuracy with internal test data. Covered scope for future improvements through improved training data and neural network analysis in subsequent discussions.

Employability Rating System | Linear Regression, Python, Flask

Jan 2020 - Apr 2020

- * Innovated a rating system for resumes weighing multiple factors achieving a testing accuracy of nearly **78%**.
- * Built the regression model using resume data from **1000+ resumes** manually rated by peers and professors.

Collision Detection of Vehicles in Traffic | RNN, OpenCV, Object detection

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.
- * Created a mobile app for law enforcement to track data, record traffic violations, and receive penalty and insurance claim notifications. The app was tested with **4+ camera feeds** to generate real-time response.

COURSEWORK

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

WORK EXPERIENCE

Software Development Engineer
Barclays

MERN stack, Javascript, Jenkins, Mainframe

Sep 2021 - Aug 2023
Chennai, India

- Automated testing for external synchronization programs helping save over **\$50,000 annually**.
- Developed a number of improvements for a DevOps application increasing user impressions by **100%**.
- Streamlined 10+ processes using Jenkins pipelines for internal usage saving over **\$1000** on a daily basis.
- Coded marking algorithms that handles 1,000,000+ transactions with successful testing accuracy of **100%**.

RELEVANT LINKS

- [codeforces.com \(sunboy99\)](https://leetcode.com/sunboy99/) - [leetcode.com \(yk_2310\)](https://leetcode.com/yk_2310/) - [hackerrank.com \(yk-2310\)](https://hackerrank.com/yk-2310)