YADHUKRISHNAN PANKAJAKSHAN ⚲ San Jose, CA

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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 — GPA: 4.0/4.0
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 — Sep 2021 - Aug 2023
Barclays — 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) - leetcode.com (yk_2310) - hackerrank.com (yk-2310)