Yadhukrishnan Pankajakshan

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Education

Northeastern University Sep 2023 - May 2025 (expected)
Master of Science in Computer Science San Jose, California

Anna University Aug 2017 - May 2021
Bachelor of Engineering in Computer Science and Engineering Chennai, India

Relevant 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

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

Work Experience

Software Development Engineer - Barclays *Chennai, Tamil Nadu, India* Sep 2021 - Aug 2023

- **[JCL, COBOL]**:Automated testing for external synchronization programs helping **save over $50,000 annually.**
- **[MERN]**: Developed a number of improvements for a DevOps application by **more than 1000 peers**.
- **[Javascript, Jenkins]**: **Streamlined 10+ processes** using deployment pipelines for internal usage.
- **[COBOL, JCL]**: Coded transaction marking algorithms that handles **over 10000 simultaneous users**.

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.
- Using internal test data, **reached 90% accuracy**. A subsequent discussion also covered scope for future improvements through improved training data and neural network analysis.

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.

Detecting pneumonia using chest X-Rays *CNN, Python, Flask* 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.

Programming and Development

- codechef.com (kennyackerman)
- codingame.com
- coursera.com
- codeforces.com (sunboy99)
- leetcode.com (yk_2310)
- hackerrank.com (yk-2310)