Yadhukrishnan Pankajakshan

MS CS at Northeastern University

yadhukrishnanp231099@gmail.com www.github.com/yk-2310

+1-(669)-281-6923 www.linkedin.com/in/yk2310/

Education

•Master of Science in Computer Science *2023-Present*

Northeastern University, Khoury College of Computer Sciences

•Bachelor of Engineering in Computer Science and Engineering *2017 - 2021*

Anna University, SSN College of Engineering CGPA: 8.42/10

Experience

•Software Development Engineer - BA3 *Sep 2021 - Aug 2023*

Barclays Chennai, India

- Coded transaction marking algorithms that could handle **over 10000 simultaneous users**.
- Aided **100,000 consumers** on a daily basis by automating the testing process of programs that dealt with external synchronizing processes.
- Designed and developed a number of improvements for a devops application utilized internally by **more than 1000 individuals**. Streamlined multiple processes using deployment pipelines for internal usage.

•Ruby Development Internship *Dec 2019 - Jan 2020*

TESARK Technologies Chennai, India

- Created a completely functional **blog application** using Ruby on Rails.
- Developed tools for tracking the presence of more than **100 employees** at work.

•Web Development Internship *Apr 2019 - May 2019*

National Centre for Coastal Research Chennai, India

- Devised a dashboard for fishery applications writing more than **500 lines** of code.
- Participated in field testing of coastline monitoring application by **marking more than 50 points, 10 miles** into the ocean.

Projects

•Digitalizing Handwritten Text using AI *Oct 2020 - Mar 2021*

Research Project

- 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 *Jan 2020 - Apr 2020*

Exploratory Project

- 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 *Sep 2019 - Jan 2020*

Hackathon Project

- 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.

Technical Skills and Coursework

Languages: C/C++, Python, Javascript, HTML+CSS, Ruby, JAVA, Julia
Frameworks: ReactJS, nodeJS, expressJS, flask, Spring Boot
Cloud/Databases: MongoDb, Firebase, mySQL
Machine Learning: OpenCV, Tensorflow, Keras, numpy, neural networks
Soft Skills: Self-learning, Presentation, Adaptability, Communication

Relevant Coursework: Engineering Mathematics I & II, Algorithms, Data Structures, Internet Programming, Software Engineering, Artificial Intelligence, Object Oriented Programming.

Achievements

Competitive Coding: 5-star rated on Codechef with peak rating of **2137** (yk_2310).
Ranked an expert on codeforces with peak rating of **1724** (yk_2310).
Placed in **top 1%** in clash of code, an online one versus one coding competition on codingame.com.
Development: Won **first place** in an internally held hackathon with over **100 teams** at Barclays.
ML & AI: Finished in one of the **top 20 teams** at a National level ML hackathon for the healthcare industry.
Shortlisted as **one of the top 7 teams** in Smart India Hackathon at the zonal level.
General: Placed **first place** in multiple extra-curricular competitions at the university and national levels.