

Sreenivasa Radha Krishnan Rayaprolu

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EDUCATION

- George Mason University** Fairfax, Virginia
 - Masters of Science - Computer Science (Concentration in Machine Learning)* August 2021 - May 2023
 - GPA: 4.0/4.0*

SKILLS SUMMARY

- Languages** Python, C, C++, JavaScript, Java, C#, SQL, MATLAB, R
- Libraries** TensorFlow, Pytorch, SpaCy, OpenCV, HuggingFace, PySpark
- Frameworks** AngularJS, ReactJS, NodeJS, Spring Boot, Django, .NET, Flask
- Tools** Git, LATEX, Microsoft Suite, Power BI, Tableau, AWS, GCP, Kubernetes, Docker, Jenkins
- Platforms** Linux, Windows, Mac OS, Android

WORK EXPERIENCE

- College of Education and Human Development** Fairfax
 - Research Assistant (Part-time)* August '22 - Present
 - Teaching Assistance** Provide assistance in setting up the environment and delivering the weekly content for Praxis Certification Exam.
 - Instructional materials** Preparing learning materials and reports to facilitate student learning.
- Mahindra Research & Development** Chennai, India
 - Product Development Intern (Part-time)* December 2020 - May 2021
 - Business User Group Interactions** Interacted with various business user groups to increase the user adoption rate of various products and services by understanding the requirements and use cases.
 - Market Analysis** Collected and analyzed the data on established and prospective customers, competitors, marketing channels and sources.
 - Data Visualizations** Utilized data warehousing programs to collect the data and process it. Used Power BI and MS Excel in creating reports and dashboards.
- Indian Institute of Technology** Mumbai, India
 - Research Intern (Full-time)* March 2020 - November 2020
 - Research Project** Researched and developed solutions for Attention-based Optical Character Recognition for handwritten application forms. Conquering the challenges of background text, boxes, random scribbles in the form, etc. Achieved an accuracy about ~80%. Tech: Pytorch, Linux, shell programming, Cv2.
 - Statistical Analysis** Worked on joint Project with Indian Space Research Organisation on a Cyclone estimation Techniques. Experimented with various regression techniques after data processing. The aim of this experiment was to beat a well established statistical method with Machine Learning. R, Matlab, Shell.
- Robert Bosch Centre for Data Science and AI, Indian Institute of Technology** Chennai, India
 - Research Intern (Full-time)* December 2019 - February 2020
 - Research Project** Experimented with Deep Learning models to identify the spread of cancer among the blood cells. Models were trained on pre-processed microscopic images of blood cells. Tech: Python, Cv2, Tensorflow.
 - Research Project** Experimented various Convolutional models which can perform multi class segmentation on aerial images. This research work was collaborated with Defense Research and Development Organization and carried out to develop autonomous systems for drones. Tech: Python, Cv2, Tensorflow.

PROJECTS

- Crypto Wallet (In Process)** : Developing this project to learn advanced Data Engineering concepts. Building a crypto currency portfolio with predictions for a investor. Using Crypto APIs to source the data and store in S3 buckets. Using Apache Airflow to automate the ETL pipeline. Using PySpark ML models to analyse and make predictions on the data. Tech: Python, Pyspark, AWS, Apache Airflow, ReactJS, Flask, Docker.

AWARDS

- Secured First Prize in Microsoft Hackathon at Patriot Hacks-2022 for building an rescue application for Ukrainians. Used REST APIs with Spring Boot for the backend and Azure cloud for storing data. (Feb 2022)
- Secured Second Prize and Cash Prize in Entrepreneurship Challenge organized by CAHMP-GMU for presenting best business startup idea. (May 2022)