

SRINIVASA ARUN YERAGUDIPATI

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EDUCATION

Purdue University - West Lafayette
M.S. in Computer Science

Aug 2021 - Present

Anna University
B.E. Computer Science & Engineering
Overall CGPA: 8.625/10

Aug 2017 - May 2021

TECHNICAL STRENGTHS

Programming Languages	Python, C, C++, Java, SQL, HTML, CSS, JavaScript
Fields	Machine Learning, Android App Development, Web Development
Libraries	NumPy, Pandas, Matplotlib, Scikit-learn, Pytorch, Tensorflow, Keras
Software & Tools	git, Jupyter Notebook, Android Studio, Vim, LaTeX

INTERNSHIPS

TVS Electronics
IT Internship

June 2020 - August 2020
Chennai, Tamil Nadu, India

- Designing an AR Assisted video calling application for remote service of appliances
- Used Three.js, React.js and Daily.co libraries

National Centre for Coastal Research
Student Internship

June 2019 - June 2019
Chennai, Tamil Nadu, India

- Designing online forms for flood surveys
- Used OpenDataKit app to create the form and Google Sheets as a server to collect data

RELEVANT COURSES

Graduate

Cryptography - Algorithms Design, Analysis and Implementation - Statistical Machine Learning

Undergraduate

Cryptography and Network Security - Design and Analysis of Algorithms - Software Engineering - Database Management Systems - Computer Networks Compiler Design - Artificial Intelligence - Distributed Systems - Cloud Computing - Big Data Analytics - Human Computer Interaction

PROJECTS

ImageCLEF Tuberculosis Challenge

- Predicting probability of tuberculosis, presence of caverns and presence of pleurisy in 3D CT images of lungs using Machine Learning
- [Paper Link](#)

Augmented Reality Assisted Video Conferencing Application for Remote Assistance

- Using Three.js, Daily.co and React.js to create a video call application which can be used for any remote assistance in repairing appliances
- Done as part of an Internship at TVS Electronics

Home Trainer - Providing Feedback for Exercises

- Providing feedback for workouts by using OpenPose and a modified K-Nearest Neighbours classifier
- Done as Undergraduate Final Year Project

Predicting Popularity of an Advertisement on OLX

- OLX JARVIS AI Hackathon held at Shastra, IIT Madras technical fest
- 4th Place out of 20 teams
- [Project Link](#)

Predicting Admissions to Graduate Schools using Machine Learning

- Determining the chance of getting an admit based on features like CGPA and GRE Score
- Comparing the performance of two different machine learning models
- [Project Link](#)

Malaria Cell Infection Detection

- Using Convolutional Neural Networks to classify a cell as either uninfected or parasitized
- Achieved 96.1% accuracy
- [Project Link](#)

WORK EXPERIENCE

Open Source Contributions

GitHub

- SymPy - a Python Library for Symbolic Mathematics
- intermine/intermine-ws-python - An implementation of a webservice client for InterMine webservices, written in Python