Manikantan **Srinivasan** Student | Software Engineer

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I am a computer science student specialising in machine learning and intelligent systems. My long term goal is to build AI systems that solve big problems and are easy to scale. I have great data skills and also have experience in building backend systems in python. In my free time I like listening to podcasts and travelling.



EDUCATION

B. Tech in Computer Science Engineering- Specialization in Artificial Intelligence and Machine Learning,

University of Petroleum and Energy Studies, Dehradun

cgpa: 8.29/10

2018-2019 XII-science, Whitefield Global School, Bangalore

percentage: 74.8

X, Oakridge International School, Hyderabad 2016-2017

cgpa: 9.4



EXPERIENCE

Jun 2022

Jio, (Software engineering Intern),

Aug 2022

- > worked in the domain of knowledge graphs and API creation and created and tested more than 6 full
- > Used gRPC, python and Arangodb (and other NoSql databases).
- > used git version control.

Python gRPC NoSql git github

Jun 2021

Aug 2021

MlSquare, (DATA SCIENTIST INTERN),

- > Worked on MLops to test a OpenCV based tool in different conditions and came to many data conclusions.
- > Helped a government organisation by performing API testing and giving device recommendations to help veterinary doctors and farmers.

openCV Python ML (decision tree) pyzbar



PROJECTS

AGENT NAVIGATION USING REINFORCEMENT LEARNING TECHNIQUES

- github.com/mani2001/Agent-Navigation-using-reinforcement-learning
 - > Implemented Q-Learning, SARSA and Deep Q networks on custom-generated random obstacle 2-D maps on google colab and local machine.
 - > got research level conclusions to match use-case with type of algorithm used.

Python Reinforcement Learning

COMPARISON OF ALGORITHMS TO SOLVE TSP PROBLEM

- github.com/mani2001/TSP-solvers
 - > Compared Algorithms like Genetic Algorithm, Dynamic Programming, Branch and Bound method and Naïve Algorithm to solve the famous TSP problem and plotted graphs and visualizations.
 - > Tuned the hyperparameters like population size and number of generations, to track the most effective way to implement the genetic algorithm for the problem.

C/C++ Visual Studio code

MALARIAL CELL CLASSIFICATION USING CNN

github.com/mani2001/Malarial_cell_classification

- > Performed binary classification of infected and uninfected cells by malaria.
- > A CNN model was used for the same that contains 2 convolutional layers.

Neural Networks Python

SKILLS

Core Machine Learning, Deep Learning, Reinforcement Learning, Data analysis, Keras, Pytorch

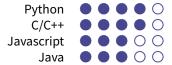
Web Django,Flask,Reactjs,Html,Css
Frameworks Django, React, Tensorflow
Databases MySQL, Oracle, NoSql(Arango)

Platforms IntelliJ Idea, Pycharm, Visual Studio Code, atom, git, jupyter-notebook

Design StarUML, Figma.

Others Data structures, DAA,AWS

Programming Languages



♣ Non-tech Skills

- > Team work
- > Communication
- > Collaboration
- > Time Management
- > Problem Solving

- > reading Non-fiction books
- > podcasts on science
- > running, football, mma

ACCOMPLISHMENT AND RECOGNITION

- > Actively participated in CSI Hackathon at UPES in the year 2019-20
- > Secured Google Hash code rank below 5000 among 10000+ members
- > Special Project Presentation award at IBM ICE
- > Member and advisor of Scientific Organization Worlds of Wissenschaft

Manikantan - CV

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