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

2019-2023 **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**

2016-2017 **X**, Oakridge International School, Hyderabad
cgpa : **9.4**

Experience

Jun 2022 – Aug 2022 — **Jio, (Software engineering Intern),**
- worked in the domain of knowledge graphs and API creation and created and tested more than 6 full fledged APIs.
- 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$_{C}ell_{C}lassification$

- 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

Python	●●●●○
C/C++	●●●●○
Javascript	●●●○○
Java	●●●○○

Non-tech Skills

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

Hobbies

- 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