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# ADARSH SHANKAR

*Passionate about programming and advancing machine learning to solve problems in the real world.*

## EDUCATION

**B.S Computer Science – Dec 2021 | University of California, Irvine (UCI)**

SPECIALIZATIONS AND RELEVANT COURSEWORK:

Algorithms – Data Structures and Algorithms, Computational Geometry, Optimization for Algorithms, Operating Systems

Machine Learning – Machine Learning and Data Mining, Artificial Intelligence, Algorithms for Graphical Models

**IB Diploma - June 2015 | Greenwood High International School, Bangalore**

Higher Level – Mathematics, Physics, Computer Science.

Standard Level – English, French, History



## EXPERIENCE

**Software Engineer Intern | Mu Sigma** (Decisions sciences firm that offers data analytical services)

JUNE 2021 – OCTOBER 2021

Used RASA, an external framework in Python, to improve the chatbot service for all Mu Sigma products to improve customer experience and generated an increase in user retention by 15%. Also used relational databases on Neo4j and faster algorithms in R to improve the search performance of the chatbot by 10%.

**Data Analyst Intern | MoneyTap** (App-based credit line providing affordable financial services in India)

SEPTEMBER 2020 – MARCH 2021

Used Python to develop scripts for a name and address matching features for the platform to automate customer verification and integrated into the backend using FastAPI speeding up the customer verification process by 5%.

## SKILLS

PROGRAMMING LANGUAGES:

• **Strong:** C++, Python, Java • **Intermediate:** R, MySQL, Git, Bash, Julia • **Familiar:** ReactJS, C

LIBRARIES/FRAWORKS: SciPy, NumPy, Scikit-Learn, Pandas, RLLib, FastAPI

## PROJECTS

- **Checkers AI (Python):** Implemented Monte-Carlo-Tree-Search in an agent to play Checkers
- **Minecraft Agent (Python):** Used reinforcement learning to create an agent that farms different resources based on user input through the chat.
- **Graph Models (C++):** Tested different graph models and structures
- **Crux Compiler (Java):** Compiler for the Crux language with abstract syntax trees
- **Neural Networks Optimization (Python):** Experimented with different optimization methods on different classes of neural networks
- **ML Classifiers (Python):** Experimented with different types of classifier models for a Kaggle competition to predict rainfall at a particular location. Final prediction score: 0.79

## ACTIVITIES:

MUSIC: <https://linktr.ee/adarshankar97>, UCI ACADELLA 2016-2019 (TENOR)