A/S

Adarsh B. Shankar

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

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WEBSITES

• linkedin.com/in/adarsh-shankar-0a29a7103/
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• linktr.ee/adarshankar97

EXPERIENCE

June 2021 – September 2021
Software Engineer Intern • Mu Sigma • Bangalore, KA India
About: Mu Sigma is an Indian decision sciences firm that primarily offers data analytics services.
- Using AI and NLP techniques, improved the chatbot service for all the Mu Sigma products using Python tools and an external framework RASA.

September 2020 – March 2021
Data Analyst Intern • MoneyTap • Bangalore, KA India

About: MoneyTap is India's first app-based credit line in partnership with leading banks providing services from small personal loans to credit lines specifically catering to the middle-class customers of India.

- Using Python created a name and address matching feature for the mobile application and integrated it into the backend using the FastAPI framework.

EDUCATION

University of California, Irvine – Irvine, CA

B.S. Computer Science, - December 2021

Specializations:
- Algorithms
- Intelligent Systems (AI/ML)

SKILLS

Programming Languages:

• Advanced: C++, Java and Python

• Intermediate: Julia, R, MySQL, BASH, Git, JavaScript, C

Libraries/Frameworks:

• AI Frameworks: SciPy, NumPy, Scikit-Learn,

• Data Visualization: Matplotlib, Pandas

• API Frameworks: FastAPI, Web Workers API

PROJECTS

- Wrote a working interpreter in C++ for the SIMPLESEM language specification. Link: https://github.com/shankar1-hub/simplesem_interpreter
- Created and wrote an AI in Python for Checkers and entered in a tournament with other AIs. Link: https://github.com/shankar1-hub/checkers-ai
- Tested and experimented with different optimization methods on different classifications of neural networks. Link: https://github.com/shankar1-hub/ml_neural_nets
- Wrote a working compiler in Java for the Crux language specification. Link: https://github.com/shankar1-hub/crux_compiler
- Using several types of classifier models for a Kaggle competition to predict rainfall at a particular location. Final prediction score: 0.79 Link: https://github.com/shankar1-hub/ml_classifiers
- Using a statistical prediction model to rate players' skill in chess based on tournament results and use the same model to predict the outcomes for different rounds of the tournament. Link: https://github.com/shankar1-hub/graph_predict
- Using C++ to test different sorting algorithm runtimes and performances and used the data to create better hybrid sorting algorithms. Link: https://github.com/shankar1-hub/sorting_algos
- Tested different bin packing algorithms based on waste generation and using different data structures to improve performance. Link: https://github.com/shankar1-hub/bin_packing
- Testing different random graph models and generation algorithms to determine which models have the structure and which algorithms have the best runtime. Link: https://github.com/shankar1-hub/graph_models

RELEVANT COURSE WORK -

- Machine Learning and Data Mining
- Artificial Intelligence
- Optimization for Algorithms
- Computational Geometry
- Algorithms for Probabilistic/Deterministic Graphical Models
- Advanced Data Structures and Algorithm Analysis
- Computational Theory and Formal Automata
- Compilers and Interpreters
- Operating Systems

PERSONAL INTERESTS -

- Musical Instruments – Guitar, Piano, Singing
- Music Composition – Composed, wrote and produced original songs published on all streaming platforms. Link: https://genius.com/artists/Adarsh