

Parijat Bhatt

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Portfolio website: <https://bhparijat.github.io/>

EDUCATION:

- **Oregon State University**, Corvallis OR Sep 2018 - Dec 2020
Master of Science in Computer Science GPA: 3.65
Courses: Machine Learning, Deep learning, Statistical Methods, Artificial Intelligence, Reinforcement learning, Computer Architecture, Operating Systems, Theory of Computation.
Graduate Research: Monte Carlo planning for Klondike Solitaire
- **Indian Institute of Technology**, Dhn India 2013-2017
Bachelor of Technology in Engineering GPA: 3.6

SKILLS:

Languages: Python, C, JavaScript **Web Technologies:** NodeJS, Angular
Databases: MySQL, MongoDB **Libraries/Framework:** Pandas, PyTorch, NumPy, SciPy, Sklearn
Tools/Platform: Git, Linux, JSON, Google Cloud Platform, Apache Spark, MS Excel, Tableau

PROJECTS:

Monte Carlo Tree Search for Pong:

Created a **Monte Carlo Tree Search and CNN model** to get an action selection policy for the game.

Exploration Map Inpainting:

Implemented **Partial Convolution** using **UNET architecture** for a synthetic map database of 60K images to recreate map in image holes, learn T-points and loop closures.

Parallel Reinforcement Learning:

Leveraged parallel computing of Intel Dev Cloud to implement **Value Iteration, Policy Iteration, Q-learning, SARSA and Deep-Q-Network** using Ray Library.

Recommendation System

Used Apache spark to create a recommendation system for 10 million movies by implementing collaborative filtering and matrix factorization.

Lottery Scheduling

Implemented lottery scheduling for processes in xv6 environment for Operating Systems class.

Web Scraper

Used BeautifulSoup library to implement a web crawler that could scrape reviews of restaurants in SF from Yelp website.

EXPERIENCE:

Data Analysis Intern | Hemex Health Inc. | Portland, OR (June 2019 - September 2019)

- **Engineered new features** to analyze data and thus help in classification.
- Used traditional machine learning modes **AdaBoost, Random Forests, Decision Trees, Kernalized SVM and Logistic Regression** for classification task.
- Created Python scripts for tasks automation.
- Implemented a malaria detection and speciation algorithm for pilot study involving 5000+ patients.

Associate Software Engineer | CGI, India (August 2017 – July 2018)

- Developed **front-end** for web applications using angular 2, angular material, flex-layout, CSS3.
- Implemented **chat messaging** using Redis, MongoDB, Sockets and Cassandra for client and server.
- Created **server side architecture** using ExpressJS while consuming microservices.

Graduate Teaching Assistant | Oregon State University | Corvallis, OR (Sep 2019 -

- Helped students with bash programming and OS concepts for CS 344 (Operating Systems).