Parijat Bhatt

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EDUCATION:

- **Oregon State University,** Corvallis OR — Sep 2018 – June 2020
  Master of Science in Computer Science — GPA: 3.6
  Courses: Machine Learning, Deep learning, Statistical Methods, Artificial Intelligence, Reinforcement learning, Computer Architecture, Operating Systems, Theory of Computation, DBMS
  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
Software/tools: Git, Linux, JSON, RestAPI, Google Cloud Platform, Excel, Apache Spark, Tableau

PROJECTS:

Monte Carlo Tree Search for Pong:
Developed a **Monte Carlo Tree Search and CNN model** to create action selection policy for Atari game.

Exploration Map Inpainting:
Implemented **Partial Convolution** using **UNET architecture** for a synthetic map database of 50K 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 **Q-learning, SARSA and Deep-Q-Network** using Ray Library.

Recommendation System:
Created a movie recommendation system with help of 20 million movies from IMDB, using Apache Spark

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

EXPERIENCE:

Software Engineering 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 models like **AdaBoost**, **Random Forests**, **Decision Trees, Kernalized SVM and Logistic Regression** for classification.
- Created Python scripts for tasks automation.
- Developed a malaria detection and speciation algorithm for pilot study involving 5000+ patients.

Associate Software Engineer | **CGI, India** (August 2017 – July2018)

- 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

- Helped students with bash programming and Operating System concepts for CS 344.