HARSH YADAV

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EDUCATION

Columbia University *New York, NY*
MS in Computer Science, Machine Learning Track; GPA: 3.92 *Aug 2019 - Dec 2020*
Relevant coursework: *Cloud Computing and Big Data, Machine Learning, NLP, Deep Learning, Algorithms.*

Indian Institute of Technology (IIT) *Kerala, India*
B.Tech in Computer Science and Engineering; GPA: 8.2/10 *Jul 2015 - Jul 2019*
Relevant coursework: *Software Engineering, Data Structures, OS, Compilers, Networks, Databases.*

EXPERIENCE

Research Intern *Feb 2019 - May 2019*
Auckland University of Technology

- Developed software to aid the diagnosis of Parkinson's Disease from spiral hand drawing data with 86% accuracy.
- Research paper accepted in 11th Annual Conference on Knowledge Discovery and Information Retrieval.

Researh Intern *May 2017 - Jul 2017*
WASP Computer Vision Lab, Linkoping University

- Implemented software and hardware to classify digits in real-time from camera mounted on a DE2 Board.

PROJECTS **bitbucket.org/theharshyadav/**

Socially Fair Classifier *Dec 2019 - Feb 2020*

- Designed accurate models without racial bias to predict the likelihood of a criminal to be recidivistic.
- Analysed and compared fair models under the notion of statistical parity, equalized odds and predictive parity.

Cloud Based Restaurant Management System *Sep 2019 - Dec 2019*

- Designed an interaction management system for restaurants to effectively gauge feedback/reviews from consumers.
- Provided highly scalable, device agnostic and low latency messaging system for restaurants to interact with customers.
- Leveraged AWS Cognito for authentication, and DynamoDB and Elastic Search for search optimization.

Smart Door Authentication *Oct 2019 - Nov 2019*

- Created a virtual door authentication system using facial recognition and one time passcodes via text.
- Implemented facial recogniton using Amazon's Rekognition, and authentication using Cognito.

Parking App *Aug 2018 - Dec 2019*

- Solved college parking problem by creating a mobile application for renting/leasing personal parking spaces.
- Designed in React Native for cross-platform integration. Authentication & payment services using AWS Mobile Hub.

Expert Paper Recommendation System *Sep 2017 - Nov 2017*

- Automated the process of assigning research papers to be reviewed in a conference to reviewers.
- Designed an algorithm to learn topics from each experts paper and assign them to papers in the same domain.

SKILLS

Computer Languages	Java, Python, C, C++, C#, HTML, CSS, JavaScript
Framework/Tools	Tensorflow, NLTK, Scikit-learn, Cognito, Elasticsearch, Kinesis, React
Databases	MySQL, DynamoDB, MongoDB, Neo4j, Firebase

EXTRA CURRICULAR ACTIVITIES

- Teaching Assistant for the course: AI in Public Policy.
- Captain of undergrad soccer team. Represented college in national level competitions.
- Conducted practical workshop on Machine Learning and AI for over 70 college teachers in Kerala, India.