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

Software Engineering Intern   *June 2020 - Present*
Cognizant Technologies

· Designed and implemented a RESTful API to get compliance information on internal endpoints using ASP.NET.
· Implemented exception and error logging for a large scale application using Azure Monitor.

Research Assistant   *Aug 2019 - Dec 2019*
Columbia University

· 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.

Machine Learning Intern   *Feb 2019 - May 2019*
Auckland University of Technology

· Processed time series data to diagnose Parkinson's disease from spiral hand drawing using ConvNets.
· Research paper accepted in 11th Annual Conference on Knowledge Discovery and Information Retrieval.

Software Engineering 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   **theharshy.github.io/**

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

· Created a web application to extract and aggregate customer data for restaurants from multiple external APIs.
· Implemented a low latency messaging system for restraurants to interact with customers using Twillio API.
· Persisted orders data in DynamoDB and customer data in ElasticSearch for search optimization.

Smart Door Authentication   *Oct 2019 - Nov 2019*

· Created a real time 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 2018*

· Created a cross platform application in React Native to rent and lease personal parking spaces.
· Deployed backend logic implemented using Spring MVC framework on EC2 instance with Auto Scaling
· Integrated authentication using AWS Amplify with MFA code verification and payment system using Stripe.

Expert Paper Recommendation System   *Sep 2017 - Nov 2017*

· Automated the process of assigning research papers to be reviewed in a conference to reviewers.

SKILLS

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

EXTRA CURRICULAR ACTIVITIES

· Teaching Assistant for the course: AI in Public Policy.
· Conducted practical workshop on Machine Learning and AI for over 70 college teachers in Kerala, India.