

# DIVYANSHI SHARMA

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## EDUCATION

### Master of Science in Computer Science

University of Southern California, Viterbi School of Engineering

GPA: 3.8

### Bachelor of Science in Computer Science and Engineering

Jaypee University of Engineering and Technology

GPA: 8.2

## WORK EXPERIENCE

### Kaspect Labs

Research Intern

May 2019 -

Los Angeles

- Served as team lead with two masters-level developers in developing a prototype for a gamified Virtual Reality device quantifying upper extremity range-of-motion and neuromuscular coordination in the paediatric outpatient setting.
- Programmed a reliable and fault-tolerant real-time bidirectional connection between Unity and JavaScript via a RESTful API.
- Designed an in-game Principal Component Analysis (PCA) on the Patient's motion, leveraging the results to create new patient-appropriate tasks.

Tools: Unity3D, JavaScript

Python, C#, Flask, Azure, JavaScript, ZeroMQ

### Freelicious

Frontend Developer

Jun 2019 -

Los Angeles

- Heading the Frontend Mobile Development Team, assigning weekly tasks, and coordinating with the Backend Team for integration.
- Collecting and translating design team's UX wireframes and mock-ups into responsive, interactive features into a hybrid mobile application, using Angular with Ionic, HTML5, CSS3, and JavaScript.

### Wipro Technologies Ltd.

Project Engineer

Oct 2017 -

Hyderabad

- Programmed and enhanced the frontend of a hybrid mobile application tracking requests submitted for collection of assets and provided a real-time dashboard to monitor progress and display statistics.
- Delivered UI fixes and debugged the source code in a ticket managing application developed using .NET and AngularJS.
- Tools: Angular, Ionic, Bootstrap**

## PROJECTS

- Yelp Rating Predictor (Foundations and Applications of Data Mining)** – Predicted yelp review ratings using an ensemble of collaborative filtering techniques, reducing the RMSE from 1.18 to 0.99. **Python, Apache Spark, scikit-surprise.**
- Part of Speech Tagger (Applied Natural Language Processing)** – Implemented a Part-of-Speech tagger from scratch using Hidden Markov Models (HMM) and the Viterbi Algorithm to achieved an F1 score of over 96%, using Italian and Japanese datasets. **Python.**

## SKILLS

Programming	C++, Python, SQL, C#, JavaScript, Java
Frameworks/Libraries	Flask, Angular, Ionic, ZeroMQ, Apache Spark, Django, numpy, scikit-learn
Databases	MySQL, Oracle, SQL Server, PostGIS
Tools	Git, Unity3D, Azure

## LEADERSHIP & AWARDS

- Viterbi Career Ambassador, Viterbi Career Connections. Jan 2019 - May 2020
- Course Producer, CSCI 544 Applied Natural Language Processing, University of Southern California. Jan 2020 - May 2020
- Best "Hack for Good", AthenaHacks, University of Southern California. Apr 2019