# Divyanshi Sharma

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## Education

**Master of Science in Computer Science** *2020*
*University of Southern California, Viterbi School of Engineering* GPA: 3.60/4.00

**Bachelor of Science in Computer Science and Engineering** *2017*
*Jaypee University of Engineering and Technology* GPA: 8.90/10.00

## Work Experience

**Kaspect Labs** *May 2019 - Present*
*Research Intern* Los Angeles, CA

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

**Freelicious** *June 2019 - Present*
*Frontend Developer* Los Angeles, CA

- 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.** *October 2017 - July 2018*
*Project Engineer* Hyderabad, India

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

## 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

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

## Leadership & Awards

- Viterbi Career Ambassador, *Viterbi Career Connections.* *January 2019 - May 2020*
- Best "Hack for Good". *AthenaHacks, University of Southern California.* *April 2019*
- Best "Hack for Good". *AthenaHacks, University of Southern California.* *April 2019*