



# MUKHILSHANKAR UMASHANKAR

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## Summary

Computer Engineering student with an innate ability to think critically and work collaboratively. Quick learner with in-depth technical knowledge.

## Education

University of Illinois At Urbana-Champaign | Champaign, Illinois

[August 2019 - May 2023]

**Bachelor of Science** in Computer Engineering

- 3.74 GPA
- Dean's List Honouree [Fall 2019, Spring 2020, Fall 2020]
- James Scholar
- Completed coursework in Machine Learning (CS 446), Natural Language Processing (CS 447), Data science and engineering (ECE 365) Artificial intelligence (CS 440), Database Systems (CS 411), Introduction to algorithms and models of computation (CS 374), Computer systems engineering (ECE 391)

## Projects

**Developing An Automated COVID Risk Counsellor**

[August 2021- March 2022]

- Researching alongside a group of professors to build a chatbot that would act as a COVID Risk Counsellor

**Cashflow Management software for mid-sized firm**

[August 2021- January 2022]

- Created a software that would inform a mid-sized retail firm about cashflow management in order to minimise the cost of money.
- Provided insights that saves the company upwards of \$3000 per month

**mmWave Sensing Applications Machine Learning Team Lead**

[December 2021 - May 2022]

- Built the data pipeline to obtain signal information, process the signal, and obtain point cloud information of the sensor data
- Utilised clustering machine learning algorithms to make sense of point cloud data representation

**Movie review sentiment classifier using CNN and RNN models**

[October 2021]

- Exposed to building CNN and RNN models to classify movie reviews and achieved an accuracy of 75%

**Neural machine translation using RNN and transformer models**

[November 2021]

- Explored the use of RNN and transformer models to translate text

## Experience

**CARE Engineering Undergraduate tutor**

[August 2021- May 2022]

**ECE 110 Undergraduate Course assistant**

[January 2021 - May 2021]

**EV concepts computer vision team member**

[January 2021 - May 2021]

- Worked collaboratively with the computer vision team to write a lane detection program with the ultimate goal of building an autonomous car

## Skills

- Machine Learning
- Natural Language Processing
- Computer Vision
- Python
- Xcode
- C
- C++
- SwiftUI
- SQL

