

# KUSHAGRA SRIVASTAVA

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## EDUCATION

### UNIVERSITY OF MASSACHUSETTS, AMHERST

Bachelor of Science w/ Honors

Major in Computer Science; Minors in Psychology

Cumulative GPA: 3.52/4.0; Dean's List

Relevant Coursework: Data Structures; Computer Systems; Reasoning Under Uncertainty; Programming Methodology; Algorithms

Amherst, MA

Expected 05/2024

### COLLEGE OF NATURAL SCIENCES AT UMASS AMHERST

Integrated Concentration in Sciences (iConS); a 20-Credit Research Based Undertaking backed by NSF.

Research Projects are hosted on the official UMass website, compiled in [suobset.github.io/iCons](https://suobset.github.io/iCons)

Amherst, MA

11/2020 - Present

## WORK EXPERIENCE

### MATHLOGIC (Machine Learning and Analytics Based Consultation Company)

Machine Learning Intern

New Delhi, India

05/2022 – Present

- Constructed, trained, analyzed, and optimized Neural Networks on tabular, and image based datasets via Tensorflow and Keras.
- Achieved a training accuracy of 96.21% and testing accuracy of 95.17% on the MNIST Database. Similar figures were achieved on the VisualQA database, as well as Tabular datasets reflecting Market Conditions provided by the company.
- Experience with different types of Neural Networks (mainly CNN, RNN), Gradient Descent, Loss Curves, Precision vs. Recall, and the implementations of the same in Python 3. Additional experience includes working with Numpy, Sci-Kit, and Pandas.

### THE INDIAN HIGH SCHOOL

IT Specialist & Trainer

Dubai, U.A.E.

04/2020 - 08/2020

- Led a team of 14 graduates of the institution to help facilitate the online learning migration during the COVID-19 Pandemic.
- Developed a Mobile App integrated with Microsoft 365 to move classwork and exams for 4500+ students online. Utilized Teams API, Kotlin, Swift, Firebase, and Flutter. Trained 150 Faculty Members on using the same in 5 days.
- Implemented the authentication system of the school's newly developed Alumni Portal using Django, Python, and SQL.

### TATA CONSULTANCY SERVICES

Software Developer Intern

Dubai, U.A.E.

05/2019 - 08/2019

- Designed a platform in 6 weeks for a Food Company (Kout Food Group) to digitize the infrastructure across 19 branches.
- Utilized Amazon Web Services, SQL, and Hadoop to aid in the development of a web-based platform which manages the inventory and daily activities. Aided the development of real time tracking services as well.
- Deployed the initial phase of the product in under 2 weeks, as well as devised a 6-month migration plan to turn 100% digital.

## UNIVERSITY PROJECTS

### MOODMUSIC (HackUMass IX Project | 48 Hr Hackathon)

11/2021

- React App which integrates with a Spotify account to determine moods of current songs using a mathematical model developed in Python. Created an API by Flask to bridge the gap between the languages.
- Link to project: <https://github.com/suobset/MoodMusic>

### DERMSAFE (HackUMass VIII Project | 48 Hr Hackathon)

12/2020

- Android app which uses ML to determine if an individual has skin cancer based on uploaded pictures with an accuracy of 85%.
- Coded the application on Java, and created the AI model in Python (along with Tensorflow and Keras). Minimum Requirements of the app include 45MB and Android 6 in an effort to make it more accessible to the masses.
- Link to project: <https://github.com/suobset/hackUmass-VIII-proj-DermSafe>

## ACTIVITIES

### UMASS AMHERST STUDENT ALUMNI ASSOCIATION

10/2021 - Present

### GOOGLE DEVELOPER STUDENT CLUBS

11/2021 - Present

## SKILLS

**Technical Skills:** Advanced in JavaScript, React, Python, SQL, Java, C, R, Linux Bash; Proficient in RUST, Kotlin, Swift, PHP, Powershell; Frameworks and Tools: Tensorflow, Keras, Django, Node.js (NPM), Numpy, Pandas, Git

**Languages:** Fluent in English, and Hindi; Elementary Proficiency in Arabic, and Italian

**Certifications & Training:** Python + ML via Kaggle, Merit Certificate in Classical Guitar (Grade 5) via Trinity College London

**Awards:** Chancellor's Award (UMass Amherst); Dean's List in UMass Amherst (2021)