

KUSHAGRA SRIVASTAVA

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EDUCATION

UNIVERSITY OF MASSACHUSETTS AMHERST

Amherst, MA

Bachelor of Science w/ Honors | Major in Computer Science

Expected 05/2024

Cumulative GPA: 3.52/4.0; Dean's List; Received Chancellor's Scholarship for Merit Based Achievements during High School.


Relevant Coursework: Data Structures; Computer Systems; Reasoning Under Uncertainty (Statistics, Probability, Game Theory);

Programming Methodology; Algorithm Design (+ Hons. Colloq.); Artificial Intelligence; Operating Systems (+ Hons. Colloq.)

Clubs: Google Developer Student Clubs, UMass Student Alumni Association, UMass PITCH (Performing Live Music)

COLLEGE OF NATURAL SCIENCES AT UMASS AMHERST

11/2020 - Present

- Integrated Concentration in Sciences (iConS); a 20-Credit Research Based Undertaking backed by NSF.
- Published 4 Research Projects on the UMass Amherst website, compiled on ORCID;  <https://orcid.org/0000-0003-0656-5478>

WORK EXPERIENCE

FN MATHLOGIC CONSULTING SERVICES

Gurugaon, India

Machine Learning Intern

06/2022 - 08/2022

- Constructed, trained, analyzed, and optimized Neural Networks on tabular, and image based datasets via Tensorflow and Keras.
- Achieved high accuracy levels on the MNIST Database (96.21%), VisualQA (94.56%), and datasets reflecting Market Conditions.
- Performed Data Roll Up at Customer Level, Resource Allocation, Neural Network Construction and Optimization, and Ensemble Machine Learning for predicting Credit Card Defaults in a Kaggle Competition with American Express with a 92% accuracy.

SPIDER BUSINESS CONSULTANCY

Dubai, U.A.E.

Technology Research Assistant | otmlifestyle.com

05/2021 - 08/2021

- Developed a web and mobile app to help the company expand their Business Consultancy Services to clients in over 30 countries.
- The app leveraged automated recommendations for clients, as well as achieved a more interactive and efficient delivery of services.
- Designed the backend with Python and MongoDB, the web frontend, as well as prototype iOS and Android apps in 3 weeks.

THE INDIAN HIGH SCHOOL

Dubai, U.A.E.

IT Specialist & Trainer | alumni.ihsdubai.org

04/2020 - 08/2020

- Led a team of 14 graduates to develop an app (Android & iOS) using Kotlin, Swift, Firebase, and Flutter in 3 weeks.
- Integrated it with Microsoft 365 to move coursework for 4500+ students. Trained 150 Faculty Members on using the app.
- Implemented and tested the authentication system of the school's Alumni Portal using Django, Python, and SQL.

TATA CONSULTANCY SERVICES

Dubai, U.A.E.

Software Developer Intern

05/2019 - 08/2019

- Designed a platform in 6 weeks for a Food Company (Kout Food Group) to digitize the infrastructure across 19 branches.
- Used AWS, SQL, and Hadoop to develop a platform to manage the inventory and daily activities, with real time tracking.
- Deployed the product's initial phase in under 2 weeks, as well as devised a 6-month migration plan to turn 100% digital.

PROJECTS

Mapping Transit Accessibility in Boston | suobset.github.io/iCons/iCons2-MoS/redirect

- Collaborated with a team of 5 people to map the Boston Public Metro System, and analyze its accessibility.
- Programmed an Interactive Map using GIS and R to showcase the accessibility of the 162 metro stations, along with real-time on-field data taken in Boston over the span of 2 weeks, backed by MBTA, The Museum of Science at Boston, and the UMass CNS.

Assessing the Rate of Development of Renewable Energy Technologies | suobset.github.io/iCons/iCons2-CS1/redirect

- Launched an interactive website to showcase the development and adoption of Flow Batteries between 2015, predicted until 2027.
- Built interactive graphics using JavaScript, and gave a 10-minute keynote to help the audience interact and experiment with the data.

MoodMusic (HackUMass IX: 48 hr Hackathon) | github.com/suobset/MoodMusic

- React App which integrates with a user's Spotify Account to determine moods of songs being played using a mathematical model.
- The mathematical model was coded using NumPy, and an API using Flask was created to bridge between React.js and Python.

DermSafe (HackUMass VIII: 48 hr Hackathon) | github.com/suobset/hackUmass-VIII-proj-DermSafe

- Android app which determines if an individual has Skin Cancer based on uploaded pictures with an accuracy of 87%.
- Machine Learning Model trained on Tensorflow with 4000 images from ISIC, PH2, and Complete MedNode online databases.

Personal Website | skushagra.com

- Created and launched a personal website, which was initially used to teach guitar, and currently acts as my personal portfolio.
- Coded the website using HTML/CSS, along with JavaScript for interactivity, and PHP for implementing a feedback form.

SKILLS

Technical Skills: Java, Python, SQL, C, C++, JavaScript, R, RUST, Kotlin, Swift, Objective-C, HTML/CSS, PHP, TeX, x86 Assembly

Frameworks + Tools: Tensorflow, Keras, Django, Node.js (NPM), React, Numpy, Pandas, Flask, Firebase, Flutter, Git, Bash, AWS