

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

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 which are hosted on the official UMass website, compiled in suobset.github.io/iCons

WORK EXPERIENCE

FN MATHLOGIC CONSULTING SERVICES

Gurugaon, India

Machine Learning Intern

06/2022 - Present

- Constructed, trained, analyzed, and optimized Neural Networks on tabular, and image based datasets via Tensorflow and Keras.
- Achieved training accuracy of 96.21% and testing accuracy of 95.17% on the MNIST Database. Similar results were obtained on the VisualQA database, as well as multiple tabular datasets reflecting market conditions provided by the company.
- Working on a Kaggle Competition with American Express to predict if a Credit Card Defaults, with a current accuracy of 92%.

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.
- Focused on implementing the backend and server-side implementation of the application via Python and NoSQL databases.
- Designed the web frontend using HTML/CSS, and Node.js, as well as made prototype iOS and Android applications in 2 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

- 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

- 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