

Manish Kumar Singh

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Education

University of Kansas

Bachelor of Science in Computer Engineering
KU Honors Program

Lawrence, Kansas
Class of 2026

Experience

Department of Physics and Astronomy

University of Kansas, Lawrence

Undergraduate Research Assistant | *Numpy, Pandas, Matlab*

May 2023 – Present

- Analyzed the sunspots data recorded over the period of 200 years to create the optimum binning of data matrix to capture the pattern of sunspots using *Pandas and Numpy* library.
- Utilized *Support Vector Decomposition* algorithm for data reduction.

University Academic Support Center

University of Kansas, Lawrence

Text Editor

September 2022 – May 2023

- Edited the Ms Word and Ms powerpoint files to make it accessible for people with visual disability.
- Proctored and kept record of examinees at Student Testing Center.

Association for Computing Machinery Tutoring

University of Kansas, Lawrence

Tutor

January 2023 – Present

- Assisted students with Calculus I & II, Introduction to Digital Logic and Programming I assignments
- Explained complex topics to make it easy for students.

Projects

Calculator App | C++

2023

- Lead a team of 5 to develop the stack based calculator app to support PEMDAS (order of operations) for mathematical expressions.
- Successfully implemented and managed the project on GitHub, liaised with TA for necessary deliverables.

PlayPal @ HackKU | *JavaScript, HTML, CSS, Spotify API*

2023

- Collaborated with a team to develop a webapp that allows users to search and songs based on *genre, artist and year* of song.
- Contributed to accessing songs from *Spotipy* as JSON file using *Spotfy API*.
- Managed team project files on GitHub.

CNN Model to Predict Disease in Paddy Plant | *Keras, Tensorflow, Pandas, Numpy*

2020

- Trained a Convolutional Neural Network on 15,000 images of paddy plant leaves to predict 4 different diseases in Paddy plant.
- Prepared a report on the results and presented it to the AI competition.

Skills and Honors

Programming Language: Python, JavaScript, C++, SQL

Others: Git, CSS, Numpy, Pandas, Linux

Awards: KU Full Tuition award, KU Honors Symposium Winner, KU Honor Roll, Honors Opportunity Award