

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

Undergraduate Research Assistant | *Numpy, Pandas, Matlab*

University of Kansas, Lawrence
May 2023 – Present

- Analyzed the 200 years of sunspots data to detect sunspots cycle.
- Utilized *Support Vector Decomposition* algorithm for data reduction on images and music.

University Academic Support Center

Text Editor

University of Kansas, Lawrence
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

Tutor

University of Kansas, Lawrence
January 2023 – May 2023

- 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, Python

2020

- Trained a Convolutional Neural Network on 15,634 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: HTML, CSS, React, Numpy, Pandas, Linux, Git

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