

# Satwik Kambham

Data Scientist

 code-explorer.github.io  code-explorer  satwik-kambham  satwik.kambham@gmail.com

## EXPERIENCE

### Google Summer Of Code | OPEN SOURCE CONTRIBUTOR @ TARDIS

June 2022 – Current

- Developed an API to efficiently store simulation data into HDF files.
- Built data classes to improve monte carlo simulation pipeline.
- Performed unit testing and validation testing.
- Collaborated with the team to ensure code quality.
- Skills: Python, Numpy, Pandas, Astropy, Pytest, Numba, Jupyter

## PROJECTS

### Scenery Classifier | PYTHON

- Classification of images from scratch using logistic regression.
- Skills: Python, Numpy, Pillow, Flask, h5py

### Project Manager | .NET

- A .NET WPF desktop application that provides a ton of productivity features which helps users better organize and manage their programming projects.
- Skills: .NET, WPF, C#

### Captionator | PYTHON

- An offline speech to text application to provide video captioning locally.
- Skills: Python, Vosk, wxPython, Pyautogui

### KnowMore | FLUTTER

- A cross-platform application to teach basic programming concepts to those new to the field.
- Skills: Flutter

### Other projects

- Maze Generation and solving using State Space Search algorithms
- Personal Website
- Blog using Hugo
- Cross platform desktop application using Electron
- Particle Collision Simulator
- Music Store Page

## VOLUNTEER EXPERIENCE

### Microsoft Learn Student Ambassador Jan 2022 - Present

- Hosted events teaching technical concepts ranging from application development to version control.
- Lead a team of three ambassadors to write about removing bias in machine learning models and improving digital accessibility in applications.

## SKILLS

### LANGUAGES

Python • C# • C/C++ • Java

### LIBRARIES

Pytorch • Numpy • Pandas • Matplotlib • Scikit-Learn • Bokeh • Plotly • Scipy • h5py • Flask

### APPLICATION DEVELOPMENT

.NET MAUI, WPF, Electron, HTML, CSS, JavaScript, Nodejs, Flutter

### TOOLS

Git, GitHub, Unreal Engine, Unity, LaTeX, SQLite, Azure

## EDUCATION

### CHANDIGARH UNIVERSITY

BACHELOR'S IN COMPUTER SCIENCE  
AND ENGINEERING

May 2022 - May 2024 | Chandigarh, Punjab

## COURSEWORK AND

## CERIFICATIONS

- Data Structure and Algorithms
- Database Management Systems
- Deep Learning
- An introduction to Artificial Intelligence
- Software Engineering
- Reinforcement Learning
- Software Testing
- Unreal Engine
- Object Oriented Programming with C++
- Computer Networks
- Statistical Analysis
- Data Science Fundamentals