

Satwik Kambham

Data Scientist

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EXPERIENCE

Google Summer Of Code | OPEN SOURCE CONTRIBUTOR @ TARDIS

June 2022 – Sept 2022

- 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

InSight | PYTORCH

- A collection of vision models implemented in Pytorch.
- Super-Resolution, Denosing, Object Detection,
- Captioning, Style Transfer, etc.
- Skills: Pytorch, ONNX

Scenery Classifier | PYTHON

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

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

- Project Manager
- 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

DEEP LEARNING TOOLS

Tensorboard • ONNX • Pytorch Lightning • WandB

APPLICATION DEVELOPMENT

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

TOOLS

Git, GitHub, Unreal Engine, Unity, L^AT_EX, 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