Satwik Kambham

satwik-kambham.github.io | satwik-kambham | satwik-kambham | satwik.kambham@gmail.com

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

PROJECT MANAGER V2 | .NET
- ➔ A .NET WPF desktop application that provides a ton of productivity features which helps users better organize and manage their programming projects.
- ➔ Skills: C#, WPF

CAPTIONATOR | PYTHON
- ➔ An offline speech to text application to provide video captioning locally.
- ➔ Integrating pre-trained model from Vosk to perform real time inference.
- ➔ Capturing live system audio and preprocessing for Vosk
- ➔ Skills: Python, Vosk, wxPython, Pyautogui

KNOWMORE | FLUTTER
- ➔ A cross-platform application to teach basic programming concepts to those new to the field.
- ➔ Used docker to containerize application and create CI/CD workflowws to build and publish the application
- ➔ Skills: Flutter, Docker, GitHub Actions

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 accessiblity in applications.

SKILLS

LANGUAGES
Python • C# • C++

DEEP LEARNING
Pytorch • Lightning • ONNX • Tensorboard • Wandb

DESKTOP AND MOBILE DEVELOPMENT
.NET MAUI • Flutter • .NET WPF • Electron

WEB DEVELOPMENT
Flask • Express.js • TypeScript • HTML • CSS • Tailwind

TOOLS/PLATFORMS
Git • GitHub • GitHub Actions • Azure Unity • Unreal Engine • Docker PostgreSQL • Docker Compose

EDUCATION

CHANDIGARH UNIVERSITY
BACHELOR'S IN COMPUTER SCIENCE AND ENGINEERING
May 2020 - May 2024 | Punjab, India

COURSEWORK AND CERTIFICATIONS

Deep Learning •
Operating Systems •
Database Management Systems •
Software Testing •
Data Structure and Algorithms •
Object Oriented Programming •
Computer Networks •
Reinforcement Learning •
Software Engineering