Rohidh Krishna

Data Scientist

Skilled Data Scientist offering more than 1 year of experience in Data Science and exceptional analytical and critical thinking skills. Delivers a proactive approach and has the ability to function well in fast-paced/deadline-driven team environments. Eager to tackle new challenges.

Kerala, India
+91 994 773 0369
krish.rohidh@gmail.com
rohit-krish.github.io/Website
medium.com/@rohit-krishna

PROFESSIONAL EXPERIENCE

Data Science Intern, iDataLytics (Infopark, Kochi)

October 2023 - January 2024

- Built several Machine Learning Models which met the required accuracy by preprocessing the data, using optimization techniques, hyper-parameter tuning.
- Created compelling visualizations of data-insights for presentation to both technical and non-technical audiences.
- Collaborated with cross-functional teams to integrate ML models into production systems (AWS), demonstrated expertise in using Flask, Django and Fast API to develop web services.

RECENT PROJECTS

Deep Learning Framework with GPU Support [Python Library]

https://github.com/rohit-krish/Deeplex

A PyTorch inspired, basic Deep Learning Framework; built on top of an Reverse-Mode AutoGrad Engine (Coded completely from scratch). It has support to do computations in GPU as well which makes Deep Learning models to train faster by utilizing the parallel computation capability of GPUs.

Human Background Segmentation [Deep Learning Model]

https://github.com/rohit-krish/Background-Segmentation

Segmenting peoples from its background, which can be used for background replacement service for video streaming applications. By experimenting with different models, DeepLabV3 works out to be a better choice.

Movie Recommendation System [Recommendation+Website]

https://github.com/rohit-krish/Content-Based-Movie-Recommendation-System

A content based movie recommendation system, Used cosine similarity to find similar items. With Flask I built a website to serve the system, and deployed it in AWS using gunicorn and nginx.

GridGuid - Sudoku Detector & Solver [Flutter Android App]

https://github.com/rohit-krish/GridGuide

An Android application in which users can scan any Sudoku board to automatically capture the board configurations and lets users play intuitively. Used Flutter to create the mobile application and TensorFlow to build the Deep-Learning model to classify the digits, Used OpenCV Library in C++ to do the Image Processing (Computer Vision) tasks within the edge device.

SKILLS

- Machine Learning
- Deep Learning
- Computer Vision
- Natural Language Processing
- Generative Adversarial Network
- Mobile/Web Development
- Web Scraping
- Python
- C/C++
- Java Script
- Linux Bash
- Flutter, Dart
- SQL (MySQL, SQLite)
- Multi Threading/Processing
- Asynchronous Programming
- Write Technical Articles

LIBRARIES

- TensorFlow, PyTorch, Keras
- Scikit-Learn
- Pandas, Numpy
- Matplotlib, Seaborn
- OpenCV, Scikit-Image
- Flask, Django, FastAPI
- Kivy, PyGame
- Beautiful Soup, Selenium

OTHER WORKS

Image Processing Algorithms

Implemented some computer vision (image processing) related algorithms in just pure Python code without using any library (from scratch). Which includes Canny Edge Detector, Gaussian Blur, Histogram Equalization, Otsu's Thresholding, Affine Transformation, etc..

Convolutional Neural Network (CNN) Architectures

Implemented some of the famous CNN Model Architectures using PyTorch in Python. Which includes DeepLabV3, U-Net, MobileNet, GoogleNet, ResNet, SegNet, etc..

Machine Learning Algorithms

Implemented some of the Machine Learning Algorithms in Python using just the Numpy Library. Which includes Random Forest, KNN, Linear Regression, SVM, AdaBoost, etc..

CERTIFICATES

OneHack 3.0 IoT/Coding Hackathon
From IEDC RIT, Kottayam

Master calculus 1 using Python: derivatives and applications
From Udemy, Mike X Cohen

Master statistics & machine learning: intuition, math, code
From Udemy, Mike X Cohen

Complete linear algebra: theory and implementation in code
From Udemy, Mike X Cohen

Flutter & Dart - The Complete Guide [2024 Edition]
From Udemy, Academind by Maximilian Schwarzmüller

OTHER SOFTWARES/TOOLS

– AWS (EC2, S3)

– Version Control (Git, Github)

– RegEx, XPath

EDUCATION

PKMM Higher Secondary School, Edarikode