Sarthak Vajpayee

Data Scientist

Personal Profile

Kaggle Expert | Top writer on Medium.
I'm a creative thinker, who enjoys nothing more than solving problems and fixing up things. I also love reading and writing about Data Science and build awesome custom electric guitars in free time.

Contact Details

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Linkedin: linkedin.com/in/sarthak-vajpayee/
Kaggle: kaggle.com/sarthakvajpayee
Github: github.com/SarthakV7
Medium: medium.com/@itssarthakvajpayee/

Skills

- **Udacity:** AI for Trading Nanodegree.
- **Coursera:** Deep learning specialization.
- **Applied roots:** Certified Data Scientist.
- **Google cloud:** Advanced machine learning on Google Cloud specialization.
- **Stanford University:** Machine learning.
- **Udemy:** NLP with python.
- **Udemy:** Open-CV and Deep learning.
- **Udacity:** Machine learning for trading.
- **Amazon:** Getting started with AWS machine learning.

Research Projects

- Imputation and Classification of Hepatocellular carcinoma Dataset using Machine Learning (under review).
- COVID-19 classification using cough audio and deep-learning (under review).

Career Summary

DATA SCIENCE CONSULTANT

EY (Ernst & Young)
December 2021 - present

Performed statistical data analysis on large sets and identified trends by using advanced mathematical and programming skills for building predictive models.

FREELANCE DATA SCIENTIST

Stellenbosch University
March 2021 - present

Utilized crowd sourced cough audio data from COVID-19 patients to design, train and fine-tune deep-learning architectures for diagnosis of COVID-19 through cough audio. The finest model achieved specificity and, sensitivity scores of 90% and 93% making the diagnostics of COVID-19 through this tool on par with the RT-PCR test.

FREELANCE DATA SCIENTIST

ViVi greens innovators
October 2020 - Feburary 2021

Utilized object skeletonization, localization and, unsupervised learning (DBSCAN clustering) to develop and test a computer vision based product for extraction of plant cuttings, used in horticulture for vegetative (asexual) propagation.

MACHINE LEARNING DEVELOPER

Applied Roots • Hyderabad
September 2019 - November 2021

Applied Roots, an e-learning platform, deals with evaluating, debugging the student's machine learning assignments, and providing them with the right feedback. I am a part of the team where we evaluate 600 assignments daily.

Projects

- Using deep-learning to colorize black and white images.
- COVID-19 classification using cough audio and deep-learning with results on par with the RT-PCR test.
- COVID-19 global dashboard with interactive data visualization.
- Japanese to English translator using attention enabled Encoder-Decoder model.
- Kaggle - Google Quest Q&A labeling challenge (top 4.4%)
- Kaggle - Mercari Price Suggestion Challenge (top 6% using only linear models).
- AI-powered sudoku solver using CNN network. Along with API and web applications.
- AI-powered Indian license plate detector using CNN.
- Hand gesture to Emoji translator using custom CNN and YOLOv3.
- Clustering GRE high-frequency vocabulary words using Transformers (BERT) and K-Means.
- Indian traffic classification and segmentation using UNET and CANET for a self-driving car.

➸ Visit my website for detailed blogs and codes of these projects.
Website: https://sarthakv7.github.io/my_folio

Academic Background

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING.

JSS Academy of Technical Education, Noida.
August 2014 to June 2018