Aditya Singh

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Education

Rajiv Gandhi Institue of Petroleum Technology, Jais Oct. 2022 – 2026
B.Tech. in Computer Science and Engineering CPI: 9.00
Minor Degree in Buisness Consulting *CPI: 10.00*

Pioneer Convent School, Indore Mar. 2020 - Aug. 2022
CBSE Class XII (PCM) CBSE Boards Score: 94%

Atomic Energy Central School, Kakrapar Mar. 2014 – Mar. 2020
CBSE Class X (PCMB) CBSE Boards Score: 91.2%

Skills

Languages: C/C++, Python, JavaScript, HTML/CSS
Libraries/Frameworks: Numpy, Pandas, Tensorflow, Matplotlib , Plotly, Excel, Tableau, Seaborn, Scikit-learn.
Tools: Excel, Tableau, Git/Git Hub, Jupyter Notebooks.

Projects

Adidas Sales Analysis (Link) | *Python, Numpy, Pandas, Plotly, Matplotlib, Tableau* Feb. 2024
- Performed exploratory data analysis of the Adidas sales data from 2019-2021.
- Segmented and analyzed dataset features and employed feature engineering to generate insights.
- Conducted sales analysis and visualized the data to gather insights using Matplotlib and Seaborn.
- Created interactive Plotly dashboards to visualize complex sales trends across various categories and regions.
- Implemented ARIMA predictive model to predict future sales for the upcoming quarter.
- Worked on detailed analysis reports and dashboards to summarise findings.

Satellite Based Land Use Classification (Link) | *Python, Tensorflow, Keras, ResNET-50, MobileNet-V2, VGG-19* Dec. 2023
- Developed an a robust image classification model by leveraging computer vision and deep learning techniques.
- Trained the models on data from *Sentinel-2 satellite* consisting of 27000 images classified into 10 land classes.
- Implemented a custom ResNET-50 model using Tensorflow and keras for classification of images.
- Developed a MobileNet-V2 model to make a computationally efficient model for classification.
- Integrated and compared custom CNN architectures with pre-trained models of ResNET-50 and VGG-19.
- Used transfer learning and hyper parameter tuning to achieve an accuracy of 98% .

Courses & Certifications

Courses: Object-Oriented Programming, Data Structures & Algorithms, Discrete Math, Linear Algebra, Calculus, Probability & Statistics

Data Science Professional Certificate - IBM Nov. 2023
- Completed coursework and practical applications of concepts such as data analysis, Statistics, data visualisation, SQL databases, machine learning, data science workflows, data pipelines, data presentation and Reporting.

Machine Learning Specialization - Stanford Aug. 2023
- Mastered theoretical and practical implementations of topics such as supervised machine learning, Clustering, decision trees, unsupervised learning, recommendation systems and reinforcement learning.

Introduction to Computational Thinking and Data Science - MIT May. 2023
- Learnt skills such as Random walks, Probability, Distributions, Monte Carlo simulations, Dynamic Programming, Plotting and Statistics.

Achievements & Positions of Responsibility

Junior Science and Maths Olympiad (JSMO) Camp: Atomic Energy Education Society Aug. 2023
- Selected for a week long pre-JSMO Training camp conducted by Homi Bhabha Center for Science Education (HBCSE).

R&D Executive: Astronomy and Space Club, Science and Technical Council RGIPT Aug. 2023
- Responsible for Assessment and Execution of Machine Learning and Data Science on Astronomical Data and Contributing articles for the monthly magazine "*Astronova*".