Aditya Soni

Mechanical Engineering | IIT Jodhpur | B.Tech Second Year
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EDUCATION

IIT JODHPUR
B.Tech in Mechanical Engineering
2020-2024*
CGPA : 8.06/10

ST. EDMUNDS JAIPUR
Class 12 | CBSE
2020 | Jaipur,Rajasthan,India
Percentage : 87.2%

MPS JAIPUR
Class 10 | CBSE
2018 | Jaipur,Rajasthan,India
Percentage : 91%

SKILLS

LANGUAGES
Proficient:
• C++ • C • Python • Java
Familiar:
• MySQL • HTML • CSS • LATEX

DEVELOPMENT
• Android Studio • Flutter • Firebase
• ReactJS • PHP • Solidworks (3D)
• Adobe XD

COURSEWORK

UNDERGRADUATE
Data Structures And Algorithms
Introduction to Machine Learning
Introduction to Computer Science
Scientific Computation
Signals and Systems
Linear Algebra
Calculus

MOOC
Object-Oriented Programming with C++
Java: The Complete Reference
Data Structures And Algorithms
Made Easy

LINKS

Github:// **adityasoni19** ⌞⌝
LinkedIn:// **Aditya Soni** ⌞⌝
LeetCode:// **Aditya Soni** ⌞⌝
Codeforces:// **adityasoni _19** ⌞⌝

EXPERIENCE

SEC FILING ANALYSER| INTER IIT TECH MEET 10.0
March 2022 - April 2022 | Website ⌞⌝ | Github ⌞⌝
• Worked in high-preparation project organised by **DIGITAL ALPHA** and managed by IIT Kharagpur.Developed a web-app to analyze SEC Filings of all US Listed SaaS companies for all the available years of data.
• Trained an **NLP scorer** model using **AWS Sagemaker Jumpstart** environment and did sentiment analysis of 10-K forms of around 193 companies world-wide.

PROJECTS

FACE MASK DETECTION | Github ⌞⌝
January 2022 – March 2022 | Self Project | Data Science
• Built a customised dataset of 9K cropped masked and non masked human faces by incorporating variations like **gaussian noise**.
• Experimented different machine learning based models like **Gaussian Naive Bayes, Decision Tree ,Random Forest, etc.** to identify masked faces in case of group images.
• For 70:30 train-test split **MLP and Support Vector Machine** models performed best with an accuracy of 71 % ,with open-CV based **Face Cascade Detector.**

AVASHYAKTA.COM | Web Developement
July 2021 – November 2021 | Course Project | Engineering Design
• Developed an **E-commerce website** through which one can order food, medicine , and stationary items.
• Led the **Back-End development team** for the web-app using **firebase** for user login authentication and storing and retrieving data for cart and payment purposes.Developed and integrated a **Chat-bot** based on python ,which can handle queries raised by the clients about the quality and delivery of the products.

FEATURE SELECTION IN CLUSTERING | Github ⌞⌝
July 2021 – November 2021 | Course Project | Machine Learning
• Worked on a Machine Learning research paper about various methods of selection of specific features in Clustering problem.
• Proposed an update for the research paper , optimising Gaussian Mixture model with Rival Penalised Expectation Maximisation algorithm instead of regular Expectation Maximisation algorithm.

ACHIEVEMENTS

• Year 2022 - Represented IIT Jodhpur and Bagged **9th position** in **Inter IIT Tech Meet** among 23 participating IITs.
• Year 2021 - Achieved **Global Rank : 63** in Codechef SnackDown round 1A
• Year 2020 - **IIT-JEE 20:** - Qualified in Top 1% among 1.16 million JEE aspirants
• Year 2018 - Achieved **AIR:8** in **Technothlon** which is mathematical and logical International School Championship organised by **IIT-Guwahati.**

EXTRACURRICULAR

• **Competitive Coding :** Practice and compete on various coding platforms like Codechef, Codeforces,LeetCode,etc.
• Holding the position of **Assistant Head - Marketing** in IIT Jodhpur's annual technical and entrepreneurship festival **PROMETEO**
• **Core Team Member** of P-Club (Programming Club), Nexus (Science Club) and Shutterbugs(Photography club) of IIT Jodhpur