ADITYA KADIYAN | 16EX20001
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ACADEMIC PROFILE

Int. MSc. - Exploration Geophysics	Indian Institute of Technology, Kharagpur	*2016-2021*
12th Standard (CBSE)	St. Anselm Pink City Sr. Sec. School	*2015*
10th Standard (CBSE)	St. Anselm Pink City Sr. Sec. School	*2013*

WORK EXPERIENCE & INTERNSHIP

Yamaha Motor Solution India, Greater Noida — Data Science — *Feb'21-Present*

Topic – Development of Segmentation of Point Cloud Data (PCD) algorithm
- Obtained **91.6%** accuracy by classifying area of Forest PCD into categories by implementing **Image Processing** and **Contour Detection**
- Segmented Tree PCD with accuracy of **83.4%** on testing dataset by implementing Principal Component Analysis via **AdaBoost**
- Predicted trees and bushes from the given PCD using **YoloV5** model and achieving accuracy of **95.4%** on testing dataset
- Developed and deployed a dashboard to facilitate tree classification into various parameters using Open3D and PPTK library
- **Best performer** with highest overall rating achieved in half yearly reviews amongst team of 6

Trell, Bangalore — Data Science — *Apr'20-May'20*

Topic - Development of People you may follow (PYMF) Recommendation System
- Conceptualized and **developed** a Recommendation system for Trell mobile application to **enhance** the **overall customer experience**
- Increased the average active screen time by **17 seconds** by enriching the user interface through the implementation of PYMF
- **98.8% accuracy** obtained on the testing dataset via **Random Forest Algorithm** and suggested variables to further improve the accuracy

Earthquake Research Institute, University of Tokyo, Tokyo — Software Development — *May'19-Jul'19*

Topic -Development of real-time residual seismic capacity evaluation system
- Developed an affordable 'Residual Seismic Capacity System' to **evaluate** a **building's safety** after high magnitude earthquakes
- Obtained **97.21% accuracy** using Accelerometer when compared against the magnitude readings of a high-grade Seismometer
- **98.3% reduction** in cost by the current technique, expedited process of safety evaluation in buildings after the occurrence of earthquakes
- Derived the displacement values by using Fast Fourier and double integral technique on the acceleration time domain data
- Applied the Wavelet Transform Technique to decompose the displacement into ten frequency component to reduce false detection

Oil and Natural Gas Corporation Videsh Limited, New Delhi — Research Internship — May'18-Jun'18

Topic - Basic seismic 3D data interpretation and surface generation
- Identified the probability of presence of hydrocarbon in the interior of the earth by analyzing seismic data of Columbian region
- Analyzed the geographical data from Columbia region, developed four horizons using Petrel Software to identify Guadalupe formation

PROJECTS

Estimated Time of Arrival (ETA) system | IIT Kharagpur — Data Science — *May'20-Nov'20*

- Enhanced the consumer experience by improving the **Estimated Time of Arrival** (ETA) system of a logistics company
- Achieved **97.6% accuracy** on testing dataset by utilizing categorical variables using **Random Forest Algorithm**
- **Reduced resource allocation** by **10%** by deploying a deck that facilitates that visualisation of the distribution of delivery times

SKILLS AND EXPERTISE

Languages: C, C++, Python, R, MySQL
Software's: Lidar 360, Anaconda, PyCharm, Tableau
Tools: AWS Cloud Services, GIT, Google Cloud Platform
Libraries: NumPy/Pandas, Scikit-Learn, Open3D,Matplotlib

LEADERSHIP, PROBLEM SOLVING & COMMUNICATION

Advisor | Technology Events| Radhakrishnan Hall of Residence

- Headed the advisory panel responsible for management and utilisation of **INR 1.5 million** worth of Annual Hall Budget
- Successfully conducted various workshops, intra-hall events, career-oriented seminars and freshers events involving over 150 students
- Guided 200+ students to excel in various extracurricular activities, increasing overall participation in General Championships by 17%

Coordinator | Inter Hall GC | Radhakrishnan Hall of Residence

- Secured second position in Sports General Championship for RK Hall, **after a span of 9 years**, improved results in 7 events from last year
- Elected by an electorate of 600+ students to lead a contingent of 15 captains and 6 secretaries in Sports and Games General Champions
- Responsible for managing a budget of **INR 1 million** to be utilised across 15 events in Sports and Games General Championship
- Represented RK Hall in Subcommittee Meetings to resolve disputes with other halls ensuring smooth execution of various events

Secretary | Athletics | Radhakrishnan Hall of Residence

- Organized practice sessions, coordinating with over 50 participants and managing a **budget** of **INR 350 thousand** for Athletics GC
- Initiated renovation of Storage room and set up an Equipment Management System which reduced the expenditure by 20 percent

AWARDS AND ACHIEVEMENTS

- Secured Four Gold Medals and Two Silver Medals in the Annual Inter-Hall Athletics General Championship 2017-18
- Part of the Silver Medal-winning Athletics Contingent of IIT Kharagpur in the IIT Roorkee Annual Sports Fest Sangram 2017-18
- Secured Silver medal as the Captain of Athletics Contingent of Radhakrishnan Hall of Residence in the General Championship 2019-20

EXTRA-CURRICULAR ACTIVITIES

Sports	• Represented IIT Kharagpur Athletics team in two Inter-IIT Sports Meet held at IIT Madras and IIT Guwahati • Part of Gold winning Inter-Hall Cricket team for RK Hall of Residence in Sports and Games General Championship
Social and Cultural	• Part of Gold winning Rangoli team of RK Hall of Residence in the prestigious Inter-Hall Illumination and Rangoli • Part of Gold winning Inter-Hall Dramatics team for RK Hall of Residence in Social and Cultural GC 2017-18