DOKUBURRA PRADEEP CHANDRA | 16MI33006

MINING ENGINEERING SAFETY ENGG. (M.Tech Dual 5Y)

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2021	M.TECH Dual Degree 5Y	IIT Kharagpur	6.30 / 10
2016	Intermediate Public Examination (IPE)	AP State board of Intermediate Education	96.6%
2014	Secondary School Certificate Examination(SSC)	Board of Secondary Education,Andhra Pradesh	9.2 / 10

COURSEWORK INFORMATION

Computer Science Subjects : Programming and Datastructures **|** Introduction to algorithms and analysis **|** Deep learning **|** Artificial Intelligence

Mathmatics Subjects : Calculus **|** Linear algebra **|** Probability and statistics

Mining Subjects : Rock mechanics **|** Mining machinery **|** Mine safety and legisilation **|** Safety engineering **|** Underground metal mining **|** Underground coal mining **|** Mine Surveying **|** Reservoir engineering fundemental **|** Elements of Petroleum engineering **|** Rescue and disaster managment **|** Ground control.

SKILLS AND EXPERTISE

Programming Languages : C **|** C++ **|** Python **|** Matlab **|** Node.js **|** Octave

Softwares Used : Anaconda **|** Dev C++ **|** Codeblocks **|** Postman **|** Visual studio code

Operating Syestems : Windows **|** Ubuntu

PROJECTS

I did this three projects on collabrating with Ecovation and IIT Delhi Alumni Under their Machine learning course

Project 1 : Hindi Hand Written recognition Using Computer vision and Image Processing

Description : Basically in this project there are two modules basically A) We need to create a model using devanagari character dataset 2) We need to write a code to recognize the hand written Hindi characters through web cam by hand moments

Link : https://github.com/pradeep42375/HindiHandWrittenCharacterRecognition **Status :** Completed

Project 2 : Hand Emoji detection using Computer vision and Image processing

Description : This project is based on the hand emojis so it contains four modules - 1)Capture the gesture through web cam 2) Make a csv file using those gestures 3) create a model using that csv file 4) check the model is working or not through web cam

Link : https://github.com/pradeep42375/EmojiRecognition **Status :** Completed

Project 3 : Drone Simulation using Deep Reinforcement learning and Unity 3D

Description : This project contains 3 modules- 1)virtual drone simulation in Unity 3D 2)Using Deep reinforcement learning making virtual drone autonomous without simulation 3)fed this all codes in the real world drone to make drone autonomous

Link : https://github.com/pradeep42375/Drone-Simulation-Using-Deep-reinforcement-learning **Status :** Ongoing

INTERNSHIPS

This Internship offered by the Collabration of Amazon Web Services(AWS) and Department of Physics,IIT kharagpur under the **Prof.DIPAK KUMAR GOSWAMI**

Internship Project Title : Development of artificial intelligence (AI) enabled Smart Mask for the detection and management of chronic obstructive pulmonary diseases (COPD)

My Role : Software Developer Backend to Design API using Node.js and Postgresql database

!self declaration by the student