Mihir Sakaria

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EDUCATION

IIT JODHPUR
B.Tech in CSE
Expected-2022 | Jodhpur,India
CGPA-7.76

PRAGATI SR SEC. SCHOOL KOTA
HIGHER SECONDARY
May 2018 | Kota,Rajasthan
CBSE Class XII boards - 96.2

AECS KAKRAPAR
May 2016 | Kakrapar, Gujarat
CBSE Class X CGPA- 10/10

LINKS

Github:// **mihirsakaria**
LinkedIn:// **mihir-sakaria**
Codechef:// **mihir_89**
Hackerrank:// **sakaria_mihir**

COURSEWORK

- Operating Systems
- Compiler Design
- Database Systems
- Computer Networks
- Data Communication
- Artificial Intelligence
- Algorithms Design and Analysis
- Data Structures and Algorithms
- Object Oriented Analysis and Design
- Theory of Computation
- Software Engineering

SKILLS

PROGRAMMING
Proficient
- C/C++
- Python
- Django
- HTML
- CSS
- BootStrap
- JavaScript
Familiar
- Java
- ReactJS
- Angular
- NodeJS

EXPERIENCE

KONGSBERG DIGITAL | Summer Intern
May 2021 - July 2021
- Programmed an *Efficient* Algorithm for Detecting Slips in Oil Rig using real-time data and managed to get an accuracy of **80%**
- Analyzed an *Efficient* method to map Global Mnemonics with their corresponding Target Mnemonics
- Designed an *efficient* Trend Monitoring System
- Developed web-apps for above use-cases using *Django* and *Angular JS*

PROJECTS

REMOTE DESKTOP CONTROLLER | Course project
December 2020 - February-2021 | Mentor: Dr. Ravi Bhandari
- Implemented an application in which one desktop can control other desktop which saves *0%* personal data and thus *ensuring privacy*
- Created a user friendly interface ensuring minimal use of computer resources and bandwidth
- Technologies Involved: Java,Socket Programming

MAPPING RBG FACE-VIDEO DATA TO SPO2 LEVELS AT RUNTIME
B.Tech Project
December 2020 - April 2021 | Mentor: Dr. Romi Banerjee and Dr. Debarati Bhuniya Chakraborty
- Involved real time heartbeat detection from face videos of 60 seconds
- Established co-relation between heartbeat, SpO2 levels and Respiration rate
- Trained a Deep Learning model using the data set created in order to calculate real time heartbeat and SpO2 levels with **78%** accuracy
- Technologies Involved: Python,Keras API,Tensorflow

ARROW CLASSIFICATION USING DEEP LEARNING | B.Tech Project
February 2020 - August-2020 | Mentor: Dr. Sumit Kalra
- Created an application for classifying arrows in a flowchart
- Built a new data set of arrows and flowcharts using 1000 images and trained a CNN model of accuracy **89%** to classify the arrows
- Technologies Involved: Python,Keras API,Tensorflow

ACHIEVEMENTS

- JEE Advanced 2018 | AIR 2817
- JEE Mains 2018 | AIR-3129
- International Mathematics Olympiad 2015 | Gold Medalist
- National Cyber Olympiad 2015 | Bronze Medalist
- National Science Olympiad 2014 | Gold Medalist

POSITIONS OF RESPONSIBILITY

- **CORE MEMBER** Career Development Cell IIT Jodhpur
  - Coordinated Company officials during placement season 2019-20
  - Orchestrated in training of students for campus interviews

- **STUDENT GUIDE** Student Counselling Service
  - Assisted and guided 15 students ensuring smooth on boarding in college
  - Organized orientation of 350 students working in team of 40