

AKSHAT MEHTA

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EDUCATION

Dr. B.R. Ambedkar National Institute of Technology
Bachelor of Engineering
Major in Computer Science

Jalandhar, India
December 2020 - Present

Innocent Hearts School
Senior Secondary Education(91.6%)
Secondary Education(90%)

Jalandhar, India
2020
2018

WORK EXPERIENCE

DATA SCIENCE INTERN

IGNITUS

December 2023 - March 2024

- Developed a real-time heatmap generation system using **Python**, **OpenCV**, and **Dlib**, achieving an impressive frame rate of **30** frames per second.
- Collaborated with a **3-person** team to implement eye detection and gaze direction algorithms, increasing the accuracy of gaze estimation by **15%** compared to existing methods.
- Designed and implemented a system to determine the user's focus area on the screen, resulting in a **heatmap** with a resolution of **1920x1080 pixels**.

TECHNICAL SKILLS

- Programming Languages:** Python, C++, JAVA, SQL, C#
- SKILLS:** Data Science, DSA, Machine Learning, Deep Learning, Computer Vision, Android development
- Certificates:** [Introduction to Data Science\(cisco\)](#), [Data Science and Machine Learning\(SimpliLearn\)](#), Android Development using Kotlin(Udacity).

PROJECTS

FACE MASK DETECTION

- Tech Stack:** Python, DeepLearning, ComputerVision
- Developed and deployed a Face Mask Detection app leveraging **Python** and the **OpenCV** library.
- Utilised **deep learning** models and image processing techniques.
- Achieved real-time detection accuracy of **97%** using a **2D Convolutional Neural Network** Model on live video footage, enhancing public safety during the pandemic.
- Collaborated with cross-functional teams to fine-tune the application's performance, resulting in a **20%** decrease in **false positives/negatives** over time.

INTERNATIONAL DEBT ANALYSIS

- Tech Stack:** PostgreSQL, Python, Data Analysis, Jupyter Notebook
- Implemented an International Debt Analysis Project by leveraging **PostgreSQL** and **Python**.
- Reduced **data processing** time by **30%** provides actionable insights for strategic financial decisions.
- Crafted 20 **SQL** queries to extract insights from global debt data sourced from the world bank.

ACHIEVEMENTS

- Solved **500+** questions combined on all the coding platforms.
- Top **90%** in **CodingNinjas** with a rating of **2400+**.
- Global **Rank 50** in weekly contest on **Coding Ninjas**.
- Global **Rank 190** in weekly contest on **CodeChef**