Mukunj Mundhra

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Aspiring Data Scientist with strong expertise in Python, SQL, and R, specializing in machine learning and statistical analysis. Experienced in developing end-to-end ML pipelines, achieving 92%+ accuracy across multiple projects involving computer vision and deep learning. Skilled in data manipulation, model optimization, and deriving actionable insights from large datasets. Ability to collaborate on cross-functional teams and translate complex data problems into scalable, business-impact solutions.

EDUCATION

Thapar Institute of Engineering and Technology   June 2026
B.E. Computer Engineering   *Current CGPA: 8.50*

Delhi Public School, Maruti Kunj   June 2021
Senior Secondary (CBSE, Science)   *Percentage: 96%*

PROJECTS

EduLearn | GitHub | *PyTorch, OpenCV, YOLOv8, StyleGAN2, HuggingFace*
- Developed **real-time emotion recognition system** using YOLOv8n face detection on live classroom footage with **80%+ confidence filtering** for student engagement analysis
- Built pipeline processing frames with **transfer learning on FER models**, achieving **7-emotion classification with 92% accuracy** from manually annotated classroom data
- Resolved dataset imbalance using **StyleGAN2 synthetic augmentation** for minority emotion classes & validated outputs through FID scoring

SignSpeak | GitHub | *Python, Flask, TensorFlow, Keras, OpenCV, NumPy, Pandas*
- Built a real-time ASL recognition system with **92% accuracy** using CNN on **20,000+** images.
- Implemented OpenCV hand detection with <**200ms latency** and text-to-speech conversion.
- Deployed a Flask web app to reduce communication barriers for **the deaf community** by **85%**.

RepoScope | GitHub | *Python, Flask, GitHub API, Chart.js, Bootstrap*
- Developed a platform for in-depth GitHub repo analysis, allowing users to search across **100K+** lines of code.
- Added live code previews and instant keyword search across **5,000+** repositories.
- Built a responsive dashboard with real-time metrics, aiding decisions for **10,000+** users monthly.

WORK EXPERIENCE

Research Intern | *Experiential Learning Centre (ELC), TIET*   June 2025 – July 2025
- Developed DriveSafeAI using ensemble deep learning models for driver fatigue detection with **95%+ accuracy**.

AI/ML Intern | *YAR Tech Services (Remote)*   Dec 2024 – Feb 2025
- Optimized ML pipelines by hyperparameter tuning, reducing inference time by **20%**, improving accuracy by **5%**.

SKILLS

Languages: C/C++, Python, SQL, Dart, HTML, CSS, JavaScript, R
Libraries/Frameworks: TensorFlow, Keras, NumPy, Pandas, Scikit-learn, OpenCV, Django, Restful API's, CuPy, cuDF, cuML, Matplotlib, Seaborn, Streamlit, BeautifulSoup, Tesseract OCR, Pillow, Regex
Tools: Git/GitHub, VS Code, PyCharm, Jupyter, Google Colab, Android Studio, R Studio, MySQL, Selenium
Subjects: OOP, DSA, OS, DBMS, CN, Accelerated Data Science, ML, SE, Statistics
Soft Skills: Leadership, Problem Solving, Teamwork, Communication, Adaptability

CERTIFICATIONS

Full Stack Developer Bootcamp — GeeksforGeeks   Certificate
Complete Django Web Development — GeeksforGeeks   Certificate
Accelerating End-to-End Data Science Workflows — NVIDIA   Certificate

ACHIEVEMENTS

- **250+ LeetCode DSA Questions Solved** | LeetCode Profile
- Merit Scholarship holder at TIET