

Mohit Meharde

Computer Science Undergraduate

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SUMMARY

Innovative and detail-oriented B.Tech Computer Science student with a strong passion for Computer Vision and Machine Learning. Eager to explore new technologies and contribute to cutting-edge AI solutions while continuously expanding my skill set. Skilled in developing AI-driven applications, optimizing predictive models, and implementing deep learning techniques to solve real-world problems. Seeking an opportunity to apply my expertise in ML algorithms, image processing, and data-driven decision-making while collaborating with experienced professionals to grow and innovate.

EXPERIENCE

Indian Institute of Technology, Indore, Summer Intern Jun 2025 – Jul 2025 | Indore, India

- Worked with a manifest-based IoT platform aimed at managing heterogeneous devices through dynamic UI generation and lightweight protocols (HTTP, MQTT, CoAP).
- Gained hands-on exposure to PAVeDS, a synthetic dataset for autonomous aerial vehicles, using tools like AirSim and Unreal Engine for simulation-based learning.
- Explored the use of multimodal sensor data and simulation-driven datasets for navigation and safety modeling in autonomous systems.
- Contributed to documentation and understanding of architecture improvements related to IoT interoperability and AI-driven mobility solutions.

Oasis Infobyte, Data Science Intern Nov 2024 – Dec 2024 | Indore, India

- Developed and deployed ML models for Iris Classification, Unemployment Analysis in India, and Car Price Prediction, utilizing Python, Pandas, NumPy, Matplotlib, and Scikit-learn to extract meaningful insights.
- Enhanced model performance through data preprocessing, exploratory data analysis (EDA), feature engineering, and hyperparameter tuning, ensuring higher accuracy and interpretability.
- Applied supervised learning techniques (classification & regression) to analyze real-world datasets, improving data-driven decision-making and predictive capabilities.

EDUCATION

B.Tech in Computer Science & Engineering, Medi-Caps University Aug 2022 – Present | Indore

Higher Secondary Education in, Prestige Public School 2008 – 2022 | Indore

CERTIFICATIONS

- Deep Learning for Beginners, simplilearn
- Certificate of excellence in C,C++ & OOPS, Universal Informatics
- Advanced Google Analytics, Google
- AI Engineer Certificate, OneRoadmap
- Data Visualization: Empowering Business with Effective Insights, Tata (Forage)

ACHIEVEMENTS

Hackathons & Applied Innovation

Advanced to **Round 2 of SIH 2024** with a healthcare automation project **Semi-finalist in Mind Coders 1.0** Competed in **SEED 2024, Execute 2025**, and **Samadhan 1.0**, applying ML-driven solutions in domains like health tech, automation, and public services

Technical Leadership & Event Management

Proactively led and organized several technical events at school and university level reinforcing skills in teamwork, coordination, and problem-solving under pressure.

Competitive Programming

Regular participant in online coding contests and real time hackathons, steadily building a strong foundation in algorithmic thinking, debugging, and systemic approach to problem-solving.

PROJECTS

F1 Race Prediction Model using Jupyter Notebook & Scikit-learn, [Link](#) Jan 2025 – Mar 2025

- Built a predictive model for Formula 1 race outcomes using historical race data.
- Used Scikit-learn for data preprocessing, feature engineering, and model training.
- Implemented Random Forest and Gradient Boosting algorithms, achieving an 85% accuracy. Visualized insights using Matplotlib and Seaborn to analyze key performance factors.

AI Black and White Image Colorization with OpenCV, [Link](#) Aug 2024 – Oct 2024

- Developed an AI-based image colorization model using OpenCV and Deep Learning.
- Utilized Convolutional Neural Networks (CNNs) to convert grayscale images into realistic color images.
- Trained the model on a large dataset, achieving a 75% accuracy in color reproduction.

SKILLS

Programming: Advanced Python | C | C++ | Core Java | R | HTML | CSS

Machine Learning & Data Science: TensorFlow | PyTorch | Scikit-learn | OpenCV | NumPy | Pandas | Power BI | Matplotlib | Seaborn | Jupyter Notebook | EDA

Backend & Database Technologies: SQL | MongoDB | Firebase | Flask | Docker | Google Cloud

Tools & Workflow Automation: n8n (Workflow Automation) | Git & GitHub | Figma (UI/UX) | VS Code | Excel