SACHIN MAURYA

Aspiring Researcher in AI-ML & DS

A highly motivated AI and Data Science student with a robust foundation in machine learning, data analytics, and advanced research methodologies. Skilled in developing predictive models, image recognition systems, and automation tools, with hands-on experience in Python, TensorFlow, and Power BI. Passionate about applying cutting-edge AI technologies to solve complex challenges in defense, aerospace, and national security. Committed to driving innovation through ethical AI solutions that enhance surveillance, optimize resource allocation, and bolster national defense systems.

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https://github.com/mauryag113

https://x.com/SachinMaur48245?t=yWK3cYg7i4Gi0O6N1DhmQg&s=09

Bhilai - Durg (CG) 490006

EDUCATION -

Degree/certificate	Institute/Board	CGPA	Year
B.Tech(Hon's) CSE(AI)	Chhattisgarh Swami Vivekananda Technical University	**7.3**	**2022-26**
Senior Secondary	H.A Public School	**7.34**	**2021**
Secondary	S.B.T Public School	**7.9**	**2019**

TECHNICAL SKILLS -

- **Programming Languages:** Python, C, R, SQL.
- **Machine Learning Frameworks:** TensorFlow, Scikit-learn, OpenCV.
- **Data Analysis & Visualization:** Pandas, Numpy, Matplotlib, Seaborn, Power BI.
- **Tools & Frameworks:** HTML, CSS, JavaScript, Jupyter Notebooks, Git/GitHub, Power Automate.

Projects-

- **Brain Tumor Detection**
  Description: Enhanced a CNN-based brain tumor detection model by integrating MRI scans with patient metadata like age and medical history, improving diagnostic accuracy. Designed an automated preprocessing pipeline for multi-modal data to ensure consistency and robustness in predictions.
  Tech Stack: TensorFlow, Python, Keras, Matplotlib.
  Impact: Provides reliable diagnostic support, particularly in remote or resource-constrained defense healthcare settings.
- **Brest Cancer Detection**
  Description: Built a machine learning model for classifying breast cancer as malignant or benign with high accuracy.
  Tech Stack: Python, TensorFlow, Scikit-learn, Jupyter Notebook, Breast Cancer Wisconsin Dataset.
  Impact: Achieved 95% accuracy, aiding early detection and supporting medical diagnostics.

Research Exposure-

Reviewed 10+ research papers on AI applications in defense, healthcare, and automation, focusing on deep learning, anomaly detection, and optimization algorithms. Gained insights into advanced methodologies like CNNs, computer vision, and predictive analytics. Applied key learnings to enhance project outcomes, including brain tumor detection and chatbot development.