

ABIRAMI V

Fresher

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OBJECTIVE

MCA graduate with a strong foundation in Python programming and data handling along with hands-on experience in data analysis and AI/ML projects. Seeking a role where I can contribute to building scalable, data-driven applications while continuously enhancing my technical and problem-solving skills.

EDUCATION

- **University of Madras, Chennai.**
Master of Computer Application (MCA). (2023-2025)
- **Dr.MGR Janaki College of Arts and Science, Chennai.**
Bachelor of Computer Science. (2020-2023)

EXPERIENCE

- ❖ **Data Science/AI-ML Intern** - Naso Technologies JAN 2025-APR 2025
 - ✓ Contributed to the development of a real-time tennis video analysis system using **YOLOv8**, achieving high prediction accuracy for ball and court detection in high-speed sports videos.
 - ✓ Performed high-precision video and image annotation of tennis match footage for object detection tasks using tools like **CVAT** and custom OpenCV-based scripts.
 - ✓ Labeled multi-class objects (ball, player, court, net) across thousands of frames following strict quality benchmarks for YOLOv8 model training.
 - ✓ Designed custom Python modules for **video processing, object detection** using OpenCV.
 - ✓ Improved model performance through iterative testing, debugging, and integration of detection accuracy metrics.
 - ✓ Collaborated with cross-functional teams on software delivery aligned to customer use-case (Champinu app).
- ❖ **Data Analyst Intern** - Monolith Technologies MAY 2024-JUNE 2024
 - ✓ Developed and deployed **interactive dashboards** using **Tableau and Power BI** to support business decision-making.
 - ✓ Created scripts to automate data cleaning and transformation workflows from multiple Excel files.
 - ✓ Applied structured problem-solving and stakeholder collaboration to improve team productivity by 20%.

SKILLS

- **Programming & Development:** Python, Java, SQL, JavaScript, UI/UX design, HTML/CSS, Debugging.
- **Data Analysis:** Requirement gathering, Data cleaning, Preprocessing, Trend analysis, Data modeling, Predictive analysis.
- **Data Visualization & Reporting:** Tableau, Power BI, Dashboard creation, Insight reporting.
- **Software & Tools:** Flask, Streamlit, MS Excel, Version Control (Git, GitHub).
- **Machine Learning & AI:** Scikit-learn, TensorFlow, Keras, PyTorch, NLP, YOLO, Computer vision
- **Soft Skills:** Communication, Stakeholder collaboration, Active listening, Adaptability, Domain knowledge.

ACADEMIC PROJECTS

- ❖ **OLYMPIC DATA ANALYSIS** Aug 2024-Nov 2024
 - Built a robust backend pipeline in Python to **preprocess, clean, and model** Olympic historical data.
 - Engineered and **deployed predictive** models using logistic regression and random forests, achieving 90% accuracy.
 - Developed an interactive frontend using **Streamlit**, enhancing usability and performance for end-users.
- ❖ **DEVELOPED A SENTIMENT ANALYSIS TOOL IN PYTHON** Aug 2024-Nov 2024
 - Developed a full-stack **sentiment classification** app using Flask, NLP, and Machine Learning models (Naive Bayes).
 - Integrated hyperparameter-tuned models into a responsive **user interface** for real-time predictions.
 - Achieved **85% model accuracy** and ensured deployment readiness **through testing and code reviews**.

CERTIFICATIONS

- ❖ **IBM CERTIFICATIONS THROUGH COURSERA**-Data Analytics, Excel For Data Analysis, Data Visualizations & Dashboards with IBM Cognos.
- ❖ **UDEMY CERTIFICATION**- Python Data Analysis