# PAVAN MAGADUM

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## PROFESSIONAL SUMMARY

Motivated MCA student with strong foundations in Python, Java, Data Structures, and Software Development. Hands-on experience in Machine Learning, OCR systems, backend API development, and LLM-based chatbot systems. Passionate about building scalable and data-driven AI solutions.

## TECHNICAL SKILLS

**Languages:** Python, Java, C, JavaScript, SQL
**Web Technologies:** HTML, CSS, Flask (Basics), FastAPI (Basics)
**Machine Learning:** Data Preprocessing, Linear Regression, Logistic Regression, Decision Trees, k-NN
**Libraries:** NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn
**Core Concepts:** Object-Oriented Programming, Data Structures & Algorithms
**Tools:** Git, GitHub, Firebase, Power BI, Tableau

## EXPERIENCE

**Python Developer Intern – Algorithms365**                              Sep 2025 – Present

- Completed structured Python curriculum covering data structures, control flow, functions, and error handling.
- Applied object-oriented programming principles in practical coding exercises.
- Built console-based applications and solved real-world programming problems.
- Strengthened software development foundations aligned with SDE preparation.

**AI & ML Intern – Spherenex**                                          Feb 2026 – Present

- Collected and annotated datasets for license plate detection using bounding box techniques.
- Trained and fine-tuned YOLOv8 model; evaluated performance using Precision, Recall, and mAP.
- Built OCR pipeline with image preprocessing for text extraction.
- Integrated Firebase backend and developed complete detection-to-storage AI workflow.

## PROJECTS

**Climate-Aware Crop & Organic Fertilizer Recommendation System**

- Built ML models using Scikit-learn to predict crop suitability from soil and climate data.
- Processed datasets using Pandas and NumPy; designed Streamlit dashboard for visualization.
- Implemented rule-based mapping for organic fertilizer recommendations.

**PMind AI – LLM Powered Chatbot**

- Developed conversational chatbot using Python and LLM APIs with multi-turn context handling.
- Designed backend APIs using FastAPI and responsive frontend using React.
- Structured modular architecture separating UI, API, and AI logic components.

## EDUCATION

**Master of Computer Applications (MCA)**                          CGPA: 8.8 (Current)
Sir M. Visvesvaraya Institute of Technology, Bengaluru

**Bachelor of Science (PMCs)**                                            CGPA: 6.71
Government First Grade College, Chikkodi

**PUC**                                                                        70%
Raja Lakhamagouda PU College, Belagavi

**Class 10**                                                                82.24%
Shri Saraswati English Medium High School Ghataprabha

## DECLARATION

I hereby declare that the above information is true to the best of my knowledge and belief.