

PAVITHRA A M

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Summary

Driven technology enthusiast with a strong foundation in data structures, Python, SQL, AWS, and machine learning. Skilled in building scalable applications, applying data analytics and data science techniques to solve real-world problems. Passionate about digital innovation, cloud technologies, and continuous learning. Pursuing an Honors degree in Computer Science.

Education

Bachelor of Engineering (Honors) in Computer Science , RNS Institute of Technology, Bangalore CGPA: 8.24 / 10	2022 - 2025
Diploma in Computer Science , BES Institute of Technology, Bangalore CGPA: 8.9 / 10	2019 - 2022

Technical Skills

- **Programming Languages:** Python, SQL (Advanced), Java (Basic)
- **Web Development:** Django, HTML, CSS
- **Data Analysis & Analytics:** Pandas, NumPy, SQL, Excel, Power BI, Tableau
- **Machine Learning & AI:** TensorFlow, Scikit-learn, Regression Models, Classification, Convolutional Neural Networks (CNN), AI
- **Databases:** MySQL, MongoDB
- **Cloud & DevOps:** AWS, Git, Docker (Basic)
- **Soft Skills:** Analytical Thinking, Communication, Problem Solving, Innovation, Business Documentation

Work Experience

NSDC – AI with Business Intelligence Intern	09/2024 – 03/2025
<ul style="list-style-type: none">• Led the development of interactive AI dashboards and real-time data solutions using Python and Power BI.• Collaborated with business stakeholders to define KPIs and translate requirements into innovative cloud-based insights.• Implemented machine learning models to solve domain-specific problems, accelerating decision-making processes.	
CodSoft – Data Science Intern	06/2024 – 07/2024
<ul style="list-style-type: none">• Built classification models using Random Forest and Logistic Regression for structured business datasets.• Performed advanced feature engineering and data preprocessing for reliable predictions.• Delivered concise technical documentation to support cross-functional discussions and improve decision workflows.	

Projects

Cancer Detection System (TensorFlow, CNN)	GitHub
<ul style="list-style-type: none">• Designed and trained a deep learning model to classify tumors from medical images using TensorFlow.• Improved model accuracy via hyperparameter tuning and data augmentation, ensuring real-world applicability.	
GST Analytics and Prediction Model (Python, ML)	GitHub
<ul style="list-style-type: none">• Forecasted GST liabilities using regression-based ML models on multi-year government datasets.• Boosted model accuracy through feature engineering and cross-validation, enabling data-informed fiscal decisions.	
Farmer's Management System (Flask, MySQL)	GitHub
<ul style="list-style-type: none">• Developed a full-stack web app for farmers to manage crop cycles, transactions, and logistics.• Designed backend schemas and implemented REST APIs to support scalability and automation.	
Bank Loan Analysis Dashboard (Power BI, SQL)	GitHub
<ul style="list-style-type: none">• Created a Power BI dashboard with KPIs on loan defaults and disbursements using SQL queries and DAX modeling.	

- Identified trends that reduced loan defaults by 10% and improved processing time by 15%.

Adidas Sales Analysis (Python, Excel)

[GitHub](#)

- Analyzed and visualized multi-regional sales data to derive marketing and inventory insights.
- Automated reporting processes, improving reporting efficiency by 25%.

Certifications

- AWS Foundation Certificate
- Python for Data Science – IIT Madras
- SQL – HackerRank
- Business Analytics
- Natural Language Processing
- Programming Using Java