

Praveenkumar A

I'm a Computer Science Engineering graduate skilled in AI/ML model development, SQL,PL/SQL, and data analysis. I have hands-on experience from developing AI/ML projects, where I worked on developing and deploying ML models. I also have foundational knowledge of LLMs and RAG, and experience creating Power BI dashboards and Excel-based analytics to drive data-driven insights.

Work Experience

iOpex Technologies

[Aug 2025] - [Oct 2025]

- Worked on machine learning workflows including data preprocessing, model training, and evaluation using Python, applying fundamental ML concepts to real-world datasets.
- Gained practical exposure to Large Language Models (LLMs) and Retrieval-Augmented Generation (RAG) techniques for enhancing context-aware AI systems.
- Contributed to an Excel-to-PPT automation project and explored the Chunking Optimizer module in Blue Prism, understanding data segmentation and process optimization in automation.

Projects

Hostel Management System

- Developed a web-based Hostel Management System with secure login and database integration to manage room allocation, student records, and payments efficiently.
- Implemented SQL and PL/SQL features such as joins, subqueries, triggers, control statements, and group functions to ensure data accuracy and integrity.
- Technologies:** HTML, CSS, JavaScript, SQL, PL/SQL

Kidney Tumor Detection and Segmentation

- Built an AI-powered system for tumor detection and segmentation using machine learning and computer vision to analyze medical images for early diagnosis and treatment planning.
- Utilized YOLOv8 model architecture for object detection and segmentation tasks, optimizing model performance on labeled datasets.
- Technologies:** Python, PyTorch, Scikit-learn, NumPy, Pandas, Matplotlib, Flask

Educational Background

B.E - Computer Science Engineering

Sathyabama Institute of Science and Technology

2021 - 2025

CGPA : 8.01

Higher Secondary Education

Vidya Mandir Matric. Hr. Sec. School

2020 - 2021

Score : 87 %

Secondary School Leaving Certificate

Vidya Mandir Matric. Hr. Sec. School

2018 - 2019

Score : 84 %

Contact

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Skills

Technical Skills

- Python
- SQL
- PL/SQL
- ML Models
- NLP
- EXCEL
- POWER-BI
- RAG

Tools/Sofware

- SQL*Plus, Toad
- Jupyter Notebook / Google Colab
- Git

Certification

Machine Learning with Python

- Cognitive Class [IBM Developer Skills Network]

Database Management System

- NPTEL || IIT kharagpur

Oracle SQL &PL/SQL

- Trinethra Tech Solutions Pvt. Ltd.,

Additional Information

- Lead team and coordinated tasks** for Excel-to-PPT Automation Project during internship.
- Managed three concurrent projects**, showcasing multitasking and time management.
- Published IEEE paper** on Kidney Tumor Detection and Segmentation (ICISS).