

Pavan Kumar Gembali

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SUMMARY

Driven **Computer Science Engineer** skilled in **Machine Learning, Data Science, and Web Development**. Proficient in **Python, Java, and SQL**, with experience in building **ML models** and **responsive websites**. Demonstrates leadership as a **Club Coordinator** and holds certifications from **Coursera, NPTEL, and AWS Training**. Committed to leveraging technology for impactful solutions.

PROJECTS

Air Quality in india

September 2024 - December 2024

- **Processed and analyzed 500+ data points** from multiple sources to improve prediction reliability.
- **Utilized key pollutants (PM2.5, PM10, NO2, CO) and meteorological data**, applying feature engineering and hyperparameter tuning for model optimization.
- **Implemented Random Forest, SVM, and KNN models**, achieving **85% accuracy** in air quality forecasting using Scikit-Learn and TensorFlow.

website for physical fitness and training centre

February 2024 - April 2024

- Developed **key functionalities** like **class schedules, trainer details, and membership management**.
- Built using **HTML, CSS, JavaScript**, ensuring a **minimal-backend approach** for fast performance.
- Ensured **mobile-friendly design** for a seamless user experience across devices.

EDUCATION

Computer Science Engineering

Amrita Vishwa Vidyapeetham • Amaravati, Andhra Pradesh • 2026 • 7.52

CERTIFICATIONS

programming in java

NPTEL • 2024

Gaining expertise in object-oriented programming, data structures, and Java application development.

Joy of computing using python

NPTEL • 2024

Gaining hands-on experience in Python programming and problem-solving.

Data Visualisation: Empowering Business with Effective Insights

TATA • 2024

Framing the Business Scenario
Choosing the Right Visuals
Creating Effective Visuals
Communicating Insights and Analysis

COURSEWORK

Supervised machine learning

coursera • 2024 • Python, Machine learning

Gaining expertise in ML algorithms, model evaluation, and real-world data applications.

Python for Data Science, AI & Development

Coursera • 2024 • Python

Gaining hands-on experience in Python programming, data analysis, and AI-driven development.

INVOLVEMENT

Club Coordinator

Amrita Vishwa Vidyapeetham, Amaravati • Swachh Amrita • September 2023 - Present

- Maintained clean and hygienic campus through organizing clean up drives monthly.
- Organised events annually and spreaded the awareness through effective communication.
- Coordinated events promoting eco-friendly practices, enhancing campus cleanliness and community engagement.

SKILLS

Python Tools & Libraries: TensorFlow, Scikit-Learn, Pandas, NumPy, Matplotlib

Programming: Python, Java, SQL, C

Web Development: HTML, CSS, JavaScript