

PAVAN KALYAN AAKULA

Software Engineer

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📍 Vizianagaram, AP - India

in [Linkedin](#)

🐙 [Github](#)

EXPERIENCE

Machine Learning Internship

Pantech Solutions

📅 Aug – Sep 2024

📍 Online

- Developed and optimized ML models for classification and prediction.
- Preprocessed large datasets using Python, NumPy, and Pandas.
- Applied regression, clustering, and classification techniques.
- Fine-tuned hyperparameters and evaluated models with cross-validation.
- Analyzed performance data and handled missing values.

ACHIEVEMENTS

- Participated **SURE Trust 2nd Hackthon**
- Awarded **Best Performer** in final-year academic project competition.

TECHNICAL SKILLS

- **Programming Languages:** Core Java, Python
- **Web:** HTML, CSS, JavaScript, Django
- **Databases:** MySQL
- **Other Skills:** Data Structures, Machine Learning
- **Soft Skills:** Problem-solving, Time Management, Leadership

COURSEWORK SUBJECTS

- Data Structures and Algorithms
- Machine Learning
- Database Management System
- Cloud Computing

CERTIFICATIONS

- Python Certification - Udemy
- Machine Learning Certification - Pantech Solutions
- MySQL Certification - Udemy

EDUCATION

B.Tech. (CSE-AI/ML) - 7.1 CGPA

Avanthi Research and Technological Academy 2022 – 2025 Vizianagaram, AP
Diploma - 7.0 CGPA

Govt. Polytechnic College

📅 2018 – 2021

📍 Srikakulam, AP

Secondary - 9.0 CGPA

ZPH School

📅 2018

📍 Vizianagaram, AP

PROJECTS

Stock Price Prediction using Support Vector Regression (SVR)

Project Type: Academic / Personal Project
Tools & Technologies: Python, Scikit-learn, Pandas, NumPy, Matplotlib

Description: Built a regression model to predict stock prices using SVR, leveraging a publicly available Kaggle dataset containing historical stock data.

- **Data Source:** Utilized a Kaggle dataset with daily stock prices including Open, High, Low, Close, and Volume for multiple companies.
- **Data Preprocessing:** Cleaned and normalized data, handled missing values, and extracted relevant features such as closing price trends and moving averages.
- **Model Development:** Applied Support Vector Regression with various kernels (linear, polynomial, RBF) to model price behavior.
- **Hyperparameter Tuning:** Used GridSearchCV to optimize SVR parameters like Kernel and gamma for improved accuracy.
- **Evaluation & Visualization:** Assessed model performance using Mean Squared Error (MSE) and R² score; visualized predicted vs. actual prices using Matplotlib.
- **Outcome:** Strengthened understanding of regression techniques, time-series modeling, and practical machine learning workflows.

E-commerce Store (Mini Version)

Developed a mini e-commerce web application using Django with features like product listing, shopping cart, and secure checkout. Implemented user authentication and admin dashboard for managing products and orders.

Tech Stack: Django, SQLite/MySQL, Bootstrap