

# SRI SAI SATHVIK PANTANGI

AIML Engineer

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## Experience

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### Mayuk.ai

AI-ML Developer

08/2025

A company specializing in AI and Machine Learning solutions

- Coordinated cross-functional alignment across Engineering, Marketing, and Sales to successfully launch three key product features two weeks ahead of schedule, significantly accelerating market entry
- Automated the end-to-end data reporting pipeline utilizing Python, cutting weekly manual processing time by 94% (from 12 hours to 45 minutes) while maintaining a 99.8% data accuracy rate
- Executed deep customer segmentation analysis that informed a targeted campaign, directly generating \$500K in new revenue and driving a 25% year-over-year growth in repeat business

### PPCROY TECH SOLUTIONS

Data Analyst

06/2024 - 07/2025

A tech solution company focused on data analytics

- Engineered an ML-based forecasting model that increased prediction accuracy by 25%, providing timely, reliable forecasts that refined strategic decision-making
- Spearheaded the design and deployment of custom Power BI dashboards for 200+ users, centralizing actionable insights on key company metrics and improving cross-team data-driven alignment

### Innomatics Research Labs

Data Scientist

10/2022 - 06/2024

Research lab focusing on machine learning applications

- Curated and processed a massive **1 million-image dataset**, meticulously **segmenting and balancing** the data for model preparation.
- Deployed the VGGNet19 CNN architecture for image classification, achieving 94% accuracy on test data and reducing the error rate by 16% compared to existing baseline models.
- Finalized training and validation protocols after achieving a peak test accuracy of 96.04%, validating the model's overall performance.

### Ray Business Technologies

Associate Data Engineer

10/2021 - 06/2022

Managed and maintained complex datasets using **DDL** and **DML** to ensure data integrity, and delivered detailed **database reports** for Business Intelligence teams.

- Overhauled data accessibility in Microsoft SQL Server, utilizing strategic indexing on 50 GB of data to slash query execution time by 40%
- Managed complex datasets using DDL and DML commands to structure and maintain data integrity, producing detailed database reports for business intelligence teams
- Designed and constructed 50+ SSRS reports and maintained the ER diagram across 15 interrelated tables, ensuring data consistency and clear visualization of system relationships

## Projects

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### Real Estate Data Extraction and EDA

An exploratory data analysis (EDA) project analyzing apartment prices

- Leveraged BeautifulSoup and regex to architect an end-to-end web scraping process, resulting in the creation of a robust dataset of 450 rows and 15 columns of raw property data.
- Optimized the data cleaning process to reduce manual effort by 40%, ensuring data integrity and consistency across the dataset.
- Developed compelling visualizations using Matplotlib and Seaborn to provide clear, actionable insights into price distribution, location, and key market trends.

### Recognized Handwritten Digits

Implemented an algorithm capable of accurately classifying handwritten numerals and alphabets, resulting in a high rate of recognition.

- Implemented 26 images, and converted it into DataFrame which is having 500 GB, conducted EDA for data cleaning and visualization
- Expanded data into input/output, then further into train/test sets of 400 rows and columns
- Deployed Random Forest classification model on plant disease dataset, achieving 98% accuracy in identifying diseased plants and enabling earlier interventions, mitigating potential crop losses by 15%

# Projects

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## Early Detection on Plant Disease

Early Detection on Plant Disease using OpenCV

- Segregated images into balanced dataset to prevent bias during model evaluation
- Leveraged VGGNet19 CNN architecture to train an image classification model on the train dataset
- Achieved a 94.04% accuracy on the test dataset, demonstrating the model's effectiveness, with a 16% reduction in error rates compared to baseline models

## Skills

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Python · Microsoft Power BI · ETL · Dataflow · Microsoft SQL Server · SSRS · EDA · BeautifulSoup · Regex · NumPy · Pandas · Matplotlib · Seaborn · Random Forest · OpenCV · Flask · Web Scraping · scikit-learn · SQL · RDBMS · Power Query · DAX · Microsoft Excel · Pivot Table · Databricks · IBM · Data Structures

## Education

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Gandhi Institute of Technology and Management (GITAM)

Bachelor of Technology in Computer Science and Engineering

Hyderabad

06/2017 - 08/2021

## Key Achievements

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### HackerRank Python Challenge

Awarded 1st Place in a HackerRank Python Challenge for developing efficient, logically sound, and performed Python solutions

### AI Days 2025 Participation

Participated in AI Days 2025, gaining current insights into the latest trends and practical applications of artificial intelligence technologies