

# JAYAVARSHINI JV

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PORTFOLIO: <https://portfolio-six-blush-32.vercel.app/>

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GITHUB: <https://github.com/joojaya>

## SUMMARY:

Computer Science and Engineering graduate specializing in Artificial Intelligence and Data Science, with strong hands-on experience in data analytics, machine learning, backend development, and API-driven systems. Proficient in Python, Pandas, SQL, Node.js, and modern data tools, with practical exposure to ETL pipelines, data preprocessing, feature engineering, predictive modeling, REST API development, and dashboard creation. Demonstrated ability to work on real-world datasets, build scalable applications, and communicate insights through data visualization.

## EDUCATION:

Dr. MGR Educational and Research Institute 2021-2025

B.Tech in Computer Science (Data Science & Artificial Intelligence)

CGPA: 8.55 / 10

Percentage: 80.79%

Velammal Vidhyashram (CBSE) 2020-2021

XII

Percentage: 78.8%

Kavi Bharathi Vidyalaya (CBSE) 2018-2019

X

Percentage: 65.4%

## ACHIEVEMENTS:

- **Hacker Rank:** 500 points & 3 stars in Python
- **Geeks for Geeks:** Scored 150 in medium & hard Python challenges

## CORE SKILLS:

### Programming Languages

- Python
- JavaScript

### Data Science & Machine Learning

- Pandas, NumPy, Scikit-learn
- Data Cleaning & Preprocessing
- Exploratory Data Analysis (EDA)
- Feature Engineering
- Predictive Modeling
- Natural Language Processing (NLP)
- Financial Data Analysis
- ETL

## **Backend & Databases**

- Node.js, Express.js
- REST APIs, CRUD Operations
- JWT Authentication
- MongoDB
- SQL, SQLite

## **Frontend Technologies**

- HTML5, CSS3
- Tailwind CSS
- React.js

## **Tools & Platforms**

- Git, GitHub
- Power BI, Power Query, DAX
- Streamlit
- Excel
- Postman
- Vercel
- Render
- Cloudinary

## **Soft Skills**

- Analytical Thinking
- Problem Solving
- Communication
- Team Collaboration
- Leadership

## **COURSE WORK:**

- Data Structures and Algorithms
- Machine Learning Fundamentals
- Database Management Systems
- Web Technologies
- Artificial Intelligence Concepts

## **PUBLICATIONS:**

### **“Hoax Detector Using Artificial Intelligence”**

**Authors:** Bhargavi VD, Jayavarshini JV, Dr. V. Rameshbabu, Dr. T.V. Ananthan

**Journal:** *International Journal of Scientific Research in Engineering and Management (IJSREM)*

- This research paper presents an **AI-based approach for detecting fake and misleading content** using Natural Language Processing techniques.
- The study focuses on text preprocessing, feature extraction, and supervised machine learning models to classify hoax information.
- The proposed system demonstrates how AI can support **content credibility verification** and reduce the spread of misinformation.
- The work highlights the practical application of NLP and machine learning in real-world social media and news platforms.

## **EXPERIENCE:**

### **Data Science Intern**

#### **Code Tech IT Solutions**

**Oct 2024 – Nov 2024**

- Performed end-to-end data analysis on real-world datasets using Python, Pandas, and NumPy.
- Conducted data cleaning, preprocessing, and feature engineering to improve data quality and model performance.
- Built and evaluated machine learning models for classification and prediction tasks.
- Created analytical reports and visual dashboards to communicate insights effectively to stakeholders.
- Strengthened understanding of data-driven decision-making and applied ML workflows.

### **Data Analytics Intern**

#### **Meri Skill**

**Jun 2024 – Jul 2024**

- Cleaned, transformed, and analyzed datasets using Excel and Python.
- Conducted exploratory data analysis (EDA) to identify trends, patterns, and insights.
- Automated reporting workflows to enhance efficiency and accuracy.
- Gained hands-on experience in business-oriented data analysis and reporting.

## **PROJECTS:**

### **Hoax Detector (NLP-Based Application)**

**Technologies:** Python, Scikit-learn, Streamlit

**GitHub:** <https://github.com/joojaya/hoax-detector-project>

- Developed an NLP-based machine learning application to classify fake and misleading content.
- Implemented text preprocessing techniques such as tokenization, stop-word removal, and vectorization.
- Trained and evaluated machine learning models for content classification.
- Integrated the model into a Streamlit web application for real-time predictions and user interaction.

### **Resume Screening & Recruitment API**

**Technologies:** Node.js, Express.js, MongoDB

**GitHub:** <https://github.com/joojaya/Recruitment-Api>

- Designed and developed a backend recruitment management system using RESTful APIs.
- Implemented resume parsing and job description analysis using NLP concepts.
- Calculated candidate–job fit scores to enable automated shortlisting.
- Built scalable CRUD APIs and managed structured data using MongoDB.
- Tested APIs using Postman to ensure reliability and correctness.

### **Stock Market Data Pipeline (ETL Project)**

**Technologies:** Python, Pandas, Yahoo Finance API, SQLite, Matplotlib

**GitHub:** <https://github.com/joojaya/Stock-Trading-Pipeline-Analysis>

- Designed and implemented an end-to-end ETL pipeline to extract real-time and historical stock market data from Yahoo Finance using Python.
- Automated dataset generation through API integration instead of static datasets.
- Cleaned and pre-processed financial data by handling missing values, correcting data types, and restructuring time-series data.
- Applied data transformation and feature engineering, including calculation of daily returns and moving averages.
- Loaded processed data into CSV files and SQLite database for structured storage and querying.
- Visualized stock price trends and technical indicators using Matplotlib to derive actionable insights.

## **Interactive Zomato Data Dashboard**

**Technologies:** Power BI, Power Query, DAX

**GitHub:** [https://github.com/joojaya/Color\\_Analysis](https://github.com/joojaya/Color_Analysis)

- Designed an interactive Power BI dashboard to visualize key performance indicators (KPIs).
- Performed ETL operations using Power Query to clean and transform raw data.
- Created custom DAX measures for advanced analytics and insights.
- Improved data-driven decision-making through interactive visualizations.

## **Colour Analysis Tool**

**Technologies:** HTML5, Tailwind CSS, JavaScript

**GitHub:** [https://github.com/joojaya/Color\\_Analysis](https://github.com/joojaya/Color_Analysis)

- Built an image-based colour analysis tool to extract dominant and complementary colours.
- Generated colour palettes to enhance UI/UX consistency in design workflows.
- Developed a responsive and visually appealing interface using Tailwind CSS.

## **Recipe Book Application**

**Technologies:** HTML5, CSS3, JavaScript

**GitHub:** [https://github.com/joojaya/Recipe\\_Book](https://github.com/joojaya/Recipe_Book)

- Developed a responsive recipe browsing web application.
- Implemented dynamic UI components for smooth navigation and user interaction.
- Focused on clean design and usability principles.

## **CERTIFICATIONS:**

- **IBM Certification:**

Python, Java, Cloud, Big Data, Business Intelligence, Machine Learning, Artificial Intelligence

- Red Hat System Administration

- NPTEL – Data Science for Engineers

- TATA GenAI Data Analytics

## **LANGUAGES:**

- English
- Telugu
- Tamil