# P.S.R.L.SIDDHARDHA

B.Tech - AIML (2023-27)  
Artificial Intelligence and Machine Learning  
SRKR Engineering College, Bhimavaram

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## EDUCATION

| Degree/Certificate | Institute/Board | CGPA/Percentage | Year |
|---|---|---|---|
| B.Tech. AIML | SRKR Engineering College, Bhimavaram | 9.14 | 2023-27 |
| Intermediate | Aditya Junior College, Palakollu | 97.6% | 2021-23 |
| SSC | Sujatha English Medium High School, Medapadu | 100% | 2021 |

## EXPERIENCE

- **Infosys Springboard Internship** — *2025*  
  *AgriYield Predictor: Crop Yield Forecasting System* — Infosys Limited
  - Developed ML system predicting crop yield using Random Forest, XGBoost, and Linear Regression on environmental parameters (rainfall, temperature, humidity, soil type, NPK content) with SHAP interpretability analysis
  - Built Flask web application enabling farmers to input data and receive real-time yield predictions with confidence intervals
- **AICTE Green Skills Internship** — *Group: Alpha*  
  *Smart Rainwater Harvesting Management System* — 1M1B Foundation
  - Designed smart rainwater harvesting system using Python for data processing and created interactive dashboards with Tableau and Excel for monitoring water collection efficiency and storage levels

## PROJECTS

- **Disaster Tweet Classifier** — *2025*  
  *Tools: Python, Web Scraping, Deep Learning, NLP* — [O]
  - Developed deep learning-based classification system to identify disaster-related tweets using NLP techniques and neural network architectures for real-time emergency detection
  - Implemented web scraping pipeline to collect and preprocess Twitter data, performing text cleaning, tokenization, and feature extraction for model training and evaluation
- **Modern Interactive Weather App** — *2024*  
  *Tools: React.js, Vercel* — [O]
  - Created real-time weather application integrating OpenWeatherMap API for fetching current weather data, forecasts, and location-based information with geolocation features
  - Designed interactive and responsive UI with dynamic weather icons, temperature graphs, and multi-day forecasts optimized for mobile and desktop viewing experiences
- **AI-Based Timetable Generation System (SIH 2025)** — *May 2025 – Present*  
  *Tools: Python (CP-SAT, Genetic Algorithms), Node.js, React.js, MongoDB* — [O]
  - Built full-stack timetable system aligned with NEP 2020's flexible academic model using Node.js, React.js, and MongoDB for scalable course scheduling and management
  - Developed hybrid AI engine combining CP-SAT for conflict-free scheduling and Genetic Algorithms for optimization, creating interactive dashboards for Admin, Faculty, and Students with real-time updates

## TECHNICAL SKILLS

- **Programming Languages**:Python, Java, C, C++, JavaScript
- **Machine Learning**:Classification, Regression, Clustering, Deep Learning, Random Forest, XGBoost, SHAP, Model Evaluation
- **Web Technologies**:HTML5, CSS3, JavaScript, React.js, Node.js, Express.js, Flask, RESTful APIs, MongoDB, MySQL, PostgreSQL
- **Tools & Technologies**:Git, GitHub, VS Code, Tableau, Excel, Vercel, TensorFlow, scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

## CERTIFICATIONS

- **Web Full Stack Developer Virtual Internship**,AICTE — *Jun 2025*
- **Cambridge Assessment English**, Interchange Level3(B1) — *Jan 2025*
- **CSS and JavaScript Crashcourse**,Udemy — *Dec 2024*
- **Mastering MySQL**,Udemy — *Nov 2024*

## POSITION OF RESPONSIBILITY

- **Executive Body Member, ISTE Student Chapter**,SRKR Engineering College — *2024-25*
  - Organized and coordinated Luminex, a technical event focused on AI tools and their practical applications in solving real-world problems across various domains
  - Facilitated workshops on emerging AI technologies including machine learning, natural language processing, and computer vision, promoting technical awareness among 200+ students

## ACHIEVEMENTS

- **50 Days & 100 Days Badge**,LeetCode — *2025*
- **Academic Excellence - 9.14 CGPA**,SRKR Engineering College — *2023-25*