# Abhishek Kollipara

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## Objective

Results-driven B.Tech Computer Science undergraduate with a strong foundation in software development, data analysis, and algorithmic problem-solving. Skilled in applying analytical thinking to develop efficient solutions for real-world challenges.Seeking an opportunity in a fast-paced, innovative environment to contribute technical expertise and drive impactful solutions.

## Education

**R.V.R & J.C College Of Engineering** ,Computer Science and Engineering          Aug 2023 – May 2026
- GPA: 8.6

**A.A.N.M & V.V.R.S.R Polytechnic** ,Diploma in Computer Engineering          June 2020 – May 2023
- Percentage: 95

## Skills

**Programming Languages:** C, Python, Java

**Databases:** MySQL, MongoDB

**Web Development:** HTML,CSS,JavaScript, PHP,Node.js

**Frameworks & Libraries:** Bootstrap,Tkinter,Streamlit,NumPy,Pandas,Matplotlib,Scikit-learn

**Tools:** VS Code,Dreamweaver,Jupyter Notebook,Power BI,Git,GitHub

**Soft Skills:** Effective Communication, Team Collaboration, Problem-Solving

## Experience

**Backend Developer Intern**, Web Samrat Technologies          July 2022 – Jan 2023
- Developed and improved front-end interfaces for back-end portals using HTML, CSS, JavaScript, and Bootstrap, ensuring a responsive and user-friendly experience.
- Developed and integrated dynamic front-end components with back-end logic using PHP and MySQL, optimizing data retrieval, performance, and user experience.
- Implemented RESTful API connections to ensure seamless data flow between front-end applications and server-side databases.

## Projects

**Deep Learning Based Optimal Object Detection System From Images**
- Developed a deep learning-based object detection system to accurately identify and classify chess pieces under various positions and lighting conditions.
- Implemented and compared YOLO (You Only Look Once), SSD (Single Shot Detector), and Faster R-CNN (Region-Based Convolutional Neural Networks) for object detection.
- Analyzed performance metrics (accuracy, recall, and precision) and found that Faster R-CNN outperforms YOLO and SSD in chess piece identification.
- Utilized Python, TensorFlow, OpenCV, NumPy, Pandas, Matplotlib, and Scikit-learn for model development and evaluation.

**Interactive Data Analysis and Transformation Tool Using Streamlit**
- Developed a web-based tool using Streamlit for interactive exploratory data analysis (EDA), visualization, and transformation.

- Designed an intuitive user interface for seamless data processing, supporting CSV, Excel, and TXT file formats.
- Utilized Pandas and NumPy for efficient data manipulation, ensuring optimized memory usage.
- Integrated Matplotlib and Seaborn to create highly customizable and insightful visualizations.

**Smart Energy Management System(SEMS)**
- Developed a Smart Energy Management System using Python to track and optimize energy consumption in households and businesses.
- Implemented machine learning models (Linear Regression) to forecast energy demand based on historical data.
- Integrated email notifications (SMTP) to alert users about excessive energy consumption and provide recommendations.
- Utilized Matplotlib and Seaborn for real-time data visualization, including bar charts, line graphs, and heatmaps.

## Certifications

- Programming in Java - NPTEL | May 2024
- Microsoft Power BI – Udemy | Aug 2024
- Machine Learning with Python - IBM | Mar 2025
- Prompt Engineering Essential- IBM | Feb 2025