

Prem Pabbisetty

AIML Student | Web Developer | NLP Enthusiast | Problem Solver

Career Objective

To leverage my technical expertise in Artificial Intelligence, Machine Learning, Web Development, and Data Science to create innovative solutions that solve real-world problems while continuously expanding my knowledge and contributing to impactful projects. My long-term vision is to become a skilled professional in AI research and development while applying my problem-solving mindset to both industry and academic advancements.

Academic Background

- Pursuing Bachelor of Technology (B.Tech) in Artificial Intelligence and Machine Learning.
- Strong foundation in Computer Science fundamentals including Data Structures, Algorithms, Database Management Systems, and Operating Systems.
- Coursework includes subjects like Machine Learning, Deep Learning, Natural Language Processing, Software Engineering, and Optimization Techniques.
- Actively engaged in academic projects, technical clubs, and online learning platforms to sharpen both theoretical and practical knowledge.

Skills

- **Web Development:** Skilled in building responsive and interactive web applications using HTML, CSS, and JavaScript. I enjoy transforming creative ideas into functional user experiences.
- **Artificial Intelligence & Machine Learning:** Knowledge of supervised and unsupervised learning, regression, classification, clustering, decision trees, random forests, and neural networks. Hands-on experience with Python libraries like NumPy, Pandas, Scikit-learn, and TensorFlow.
- **Natural Language Processing:** Understanding of text preprocessing, tokenization, sentiment analysis, language models, and sequence-to-sequence tasks. Interest in building chatbots and analyzing textual data.
- **Data Handling & Problem Solving:** Proficient in managing structured and unstructured data, applying logical approaches to solve algorithmic challenges, and deriving insights from raw information. Comfortable with SQL and Excel for structured data analysis.
- **Soft Skills:** Analytical thinking, teamwork, adaptability, and effective communication.

Projects

- 1. Portfolio Website:** Designed and developed a personal portfolio website showcasing my skills, projects, and achievements. Used HTML, CSS, and JavaScript for the frontend with responsive design.
- 2. AI-based Theme Classification:** Built an AI system to analyze TV series subtitles and classify themes using NLP techniques and zero-shot classification models. Implemented using Hugging Face Transformers and visualized results through Gradio web interface.
- 3. Database Systems:** Designed a fitness center membership database with multiple entities such as Members, Trainers, Sessions, and Payments. Implemented queries and relational algebra for efficient data management.
- 4. Operating Systems Projects:** Worked on assignments involving process scheduling, memory management, and file systems to strengthen understanding of OS internals.
- 5. Environmental Studies Assignments:** Conducted research and prepared reports on pollution control techniques, environmental management, and sustainability practices, integrating technical knowledge with social awareness.

Experience & Activities

- Participated in coding competitions and solved over 100 problems on LeetCode, enhancing

algorithmic and logical thinking.

- Contributed to collaborative projects in college involving AI applications and software development.
- Actively learning through platforms like Coursera, Kaggle, and GitHub to stay updated with emerging AI technologies.
- Explored freelancing platforms to gain insights into client communication, project handling, and short-term technical assignments.

Achievements & Strengths

- Consistently improved problem-solving skills through competitive programming and academic assignments.
- Strong interest in integrating AI with real-world applications such as predictive analytics, recommendation systems, and natural language understanding.
- Recognized by peers and mentors for dedication, quick learning, and willingness to explore interdisciplinary solutions.
- Balanced technical and non-technical commitments by engaging in leadership activities, workshops, and academic events.

Contact Information

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