

# Priya Prathapaneni

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## EDUCATION

**Master of Science, Computer Engineering** Sept 2022- Dec 2023  
University of California, Riverside  
GPA- 3.51/4.0  
Course work: DBMS, Information Retrieval, AI, Advanced Operating Systems, Data Structures and Algorithms  
**Bachelors of Technology, Computer Science and Engineering** July 2018-May 2022  
Koneru Lakshmaiah Education Foundation, Vijayawada, India  
GPA - 9.09/10  
Course work: C, AI, Data Structures and Algorithms, DBMS, ML, Data Science, Soft Computing, Deep Learning

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL, MySQL, JavaScript, HTML/CSS  
**Frameworks:** Angular, React, Node.js, Flask, Django, Bootstrap, Git  
**IDE Tools:** VS Code, PyCharm, Jupyter  
**Libraries:** Pandas, NumPy, OpenCV, TensorFlow, Keras, PyTorch, XML, matplotlib, Scipy  
**Operating Systems:** Windows, Linux

## TECHNICAL EXPERIENCE

**INTERN, SWHIZZ TECHNOLOGIES** October 2021- April 2022 | Hyderabad, India

### Project 1:

- Engineered a comprehensive Resource Planning System using Python and the Django web framework, facilitating efficient management of employee details, project staffing, and user access controls.
- Integrated MySQL database to store and retrieve employee data and project information, enabling real-time reporting and skillset analysis for project resource allocation.

### Project 2:

- Created a Python-based Job Portal using Django and MySQL, prioritizing a seamless user experience. Empowered hassle-free profile creation and resume submission, while optimizing job searches.
- Implemented powerful HR tools for precise skills-based profile filtering and automated candidate alerts, ensuring a streamlined hiring process with strong system security and user-friendly profile management.

**INDUSTRIAL INTERN, BEPEC Solutions Company** May 2020 – December 2020 | Vijayawada, India

### Project:

- Designed and executed a highly effective facial recognition security system for 65 permanent workers.
- Leveraged CNN Algorithm with a testing accuracy of 96.7%. Deployed the system on Raspberry Pi for seamless integration with cameras.

## PROJECTS

**Building a Search Engine** January 2023 - March 2023

- Employed Lucene and Faiss indexing techniques to create a TV show tweet search engine; integrated Django, Python, HTML, and CSS to develop an interactive user interface for query input and previewing pertinent tweets retrieved through PyLucene and Faiss (BERT), resulting in a 30% faster search response time.
- Additionally, established a user-friendly webpage for the search engine.

**Responsive Portfolio Website** January 2023-February 2023

- Crafted a visually appealing and fully responsive portfolio website using a combination of HTML, CSS, JavaScript, and Bootstrap 5, showcasing my skills, projects, and achievements in a user-friendly and accessible manner.

**Building Employee Management Systems** October 2022- December 2022

- Built a complete Employee Management System with React and Node, including database setup, JWT authentication, and data encryption.
- Demonstrated full-stack development expertise in creating a feature-rich web app with Axios integration and robust routing.

**Adaptive Data-Driven Personalized Advisor - Individual Fitness Tracker** March 2022 – May 2022

- Designed and performed a data-driven system to generate daily activity plan recommendations in real-time to support users trying to meet daily activity targets.
- Executed a two-clustering algorithm and an online component of the system ran on a smartphone.

**Attention Mechanism for Facial Expression Recognition** August 2021 –September 2021

- Leveraged LBP (Local binary patterns) and Attention mechanism for detecting facial expressions. Attention was given on eyebrows, mouth, and eyes.
- Improved performance by 4% higher than previous model (SVM classifier) for JAFFE dataset. Also, enhanced accuracy upto 2% higher compared to previous model for the FER 2013 dataset.

## CERTIFICATIONS

- Achieved a Meta Front-end developer Professional Certificate on Coursera.
- Completed a global certification course in Artificial Intelligence and Data Science through Simplilearn.
- Successfully earned a coursera certification in IBM Data Science, Statistics with Python, Machine Learning.