KALYANI POLUKONDA

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PROFILE

As an ambitious and committed Computer Science and Engineering (CSE) student, I am dedicated to acquiring practical experience, broadening my knowledge, and achieving both personal and professional development. I possess strong communication and leadership skills, enabling me to initiate and successfully execute new projects. I excel in managing individual tasks effectively while actively contributing to collaborative team success. With strong adaptability skills, I can work effectively as both a team member and a team leader, striving to achieve significant milestones in my career

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EDUCATION

B.Tech (Hons)   2021 – present | Vijayawada, India

Velagapudi Ramakrishna Siddhartha Engineering College
- Artificial Intelligence and Data Science
- CGPA-9.16

Intermediate   2019 – 2021 | Vijayawada, India

Sri Chaitanya Junior College
- Maths, Physics, and Chemistry
- Marks-980 out of 1000

Class X   2019 | Kaikaluru, India

Holy Cross English Medium HIgh School
- GPA-10.0
- 100% in Mathematics

PROJECTS

A Decison Making System based on GIS for Urban Rain Water Drainage Network Integration in Chennai City.   Jan 2024 – present

Mini project

This project focused on extracting drainage networks from satellite images of Chennai using segmentation models on DEM data to reduce stagnant water on streets. Future work involves integrating these drainage networks with nearby water bodies as a major project.

An IoT device for Railway Loop Line Changer with Auto Feedback and Signalling   Aug 2023 – Dec 2023

EPICS project

In this project ,Our team focuses on an automated solution for optimizing railway operations using limit switches, a servo motor, WS2812 lights, and a buzzer. The system dynamically adjusts tracks as a train approaches, with visual cues and audible alerts providing real-time feedback for successful or failed changes, enhancing railway safety management.

ATM Interface

Independent Project

Sep 2022 – Jan 2023

This Java programming project involves user input for essential information such as name, phone number, card number, and CVV. Users are then prompted to select actions, including depositing, withdrawing, transferring money, or checking their balance.

Travel Agency Management System

Independent Project

Aug 2022 – Dec 2022

This project is based on Database Management, integrating both front-end and back-end technologies. We designed web pages to provide users with pertinent information about a travel agency and facilitate booking processes.

INTERNSHIPS

IIT Tirupathi(Chanakya Fellowship)

selected for an internship at IIT Tirupathi for a duration of 6 months with a stipend of 10,000 per month.

ONLINE COURSES AND CERTIFICATIONS

Supervised Machine Learning : Regression and Classification

coursera

Nov 2023

Database Foundations

Oracle Academy

Nov 2023

Ethical Hacking (65% Elite)

NPTEL Swayam

Oct 2023

Foundations of R (79% Elite+sliver)

NPTEL Swayam

Oct 2023

Business Intelligence Tutorial for Beginners

Great Learning

Sep 2023

Amazon Web Services-Cloud Computing

APSSDC

Aug 2023

AI for everyone

Coursera

Feb 2022

SKILLS

- **Programming Languages:** Java, C/C++, Python, Matlab, SQL, HTML, CSS, Javascript,Typescript
- **Cloud and Distributed Computing:** AWS
- **Network and Information Security:** Cisco CCNA
- **Virtualization Tools:** Power BI
- **Platforms:** Matlab, Google Colab
- **Operating Systems:** Microsoft Windows 10
- **Frameworks :** TensorFlow,Hadoop

WORKSHOPS ATTENDED

- **November 2023:** Three-day workshop on" Fluttering into Mobile App Development" by Mr. Hari Krishna Nuvvala, Systems Engineer in TCS, Hyderabad on 8th to 10th November 2023 at Velagapudi Ramakrishna Siddartha Engineering College.

- **September 2023**: Seasonal school on "Explainable Artificial Intelligence in Remotely Sensed Data: A Review of Applications and Current Research" by Smt. Geeta Varadan, Former Director ADRIN, Former Satish Dhavan Professor, ISRO, Bangalore and Scientists of ISRO and ADRIN on 25th to 30th September 2023 at Velagapudi Ramakrishna Siddartha Engineering College.
- **April 2023**: Two Day International Seminar on Epics by Dr. Stephanie Gillespie, IEEE Epics Chair, Associate Dean, University of New Haven, USA on 10th and 11th April at Velagapudi Ramakrishna Siddartha Engineering College.
- **August 2023:** Three day Hands-on training workshop on "AWS Cloud Computing" in collaboration with APSSDC on 10th to 12th August at Velagapudi Ramakrishna Siddartha Engineering College.
- **March 2023:** Attended a Five day workshop on "Design Thinking A creative problem solving & ideation" by Mr. Krishna Raj, Creative Head at I-Techverse Solutions, India Pvt Ltd and Shri. Anjali, UI UX Designer, ProfitOps.AI on 4th to 10th March at Velagapudi Ramakrishna Siddartha Engineering College.
- **July 2022:** Attended a one-week IOT Workshop to find important insights of IOT, organised by Mr. Sai Satish, CEO, Indian Servers, President, AIMER Society.

RELEVANT COURSES

- **Computer Science:** Database Management Systems,Operating Systems, Computer Networks, Design and Analysis of Algorithms, Advanced Java, Programming for Data Science, Artificial Intelligence, Machine Learning, Business Intelligence, and Data Visualization , FrontEnd Technologies,Mean Technologies
- **Mathematics:** Matrices, Differential Calculus, Probability, and Statistics, Discrete Mathematics,Numerical Methods for Data Analysis.

SCHOLASTIC ACHIEVEMENTS

- Epics project got accepted and presented for Intelligent Systems and Machine Learning conference in the year 2024.
- Received a bronze level badge for remarkable problem-solving abilities using the programming language Java on HackerRank.
- Achieved a ranking of 8312 on the Agriculture and Medical Common Entrance Test (AP EAMCET) which was taken by over 156899 candidates in 2020.
- Achieved district level 3rd rank in Zonal level General Knowledge competition in 2017 .

EXTRA CURRICULAR ACTIVITIES

- I've been honored with many Active Participation Certificates for my involvement in competitions like quizzes, hackathons, and ideathons hosted by esteemed universities and institutions.
- I provided guidance and mentorship to team members throughout the EPICS project, maintaining active communication with esteemed professors and researchers
- Passionate about dance and enjoy exploring various musical genres.

LANGUAGES

English- Professional working proficiency   **Telugu-** Native proficiency

DECLARATION

I hereby assert that all the information presented above is true and accurate to the best of my knowledge.
Place : Vijayawada   **Polukonda Kalyani**