Manam Venkata Ramya

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Education

B.Tech in Computer Science and Engineering   **2021 - 2025**
Vignan's Foundation for Science, Technology & Research   *Guntur, Andhra Pradesh - CGPA: 8.57*

Intermediate in MPC   **2019 - 2021**
MSR Junior College   *Valaparla, Andhra Pradesh - Percentage: 96%*

Matriculation   **2018 - 2019**
Sumedha High School   *Valaparla, Andhra Pradesh - Percentage: 95%*

Projects and Experiences

Teaching Assistant [CSE]   **July 2024 – Present**
VFSTR (Vignan's Foundation for Science, Technology & Research)

- Served as a Teaching Assistant for one academic year, providing academic assistance to juniors in **Database Management Systems (DBMS)** and **Front-End Application Development (FEAD)**.
- Facilitated subject support sessions, addressing student queries and offering additional explanations to enhance conceptual clarity.
- Assisted faculty in conducting assessments, evaluating answer scripts, and managing academic records for coursework.
- Organized and led extra doubt-clearing sessions to help students better understand complex topics and improve their practical application skills.

Crop Recommendation by Analysing Soil Characteristics   **Nov 2023 – Mar 2024**

- Designed and implemented a machine learning system to optimize crop recommendations by analyzing critical soil parameters—including pH levels, nutrient content, and moisture. This innovation led to a 20% increase in crop yield.

A Novel Boosted Machine Learning Model for Software Defect Prediction   **Nov 2023 – Mar 2024**

- Developed an advanced software defect prediction methodology utilizing Kernel Principal Component Analysis (PCA) in conjunction with the XGBoost algorithm, achieving a notable prediction accuracy of 92%.
- Outcome: Authored and published a research paper in ICITEICS-24, significantly advancing software quality assurance practices.

Web Development - Alumni Website   **May 2023 – Aug 2023**

- Engineered a comprehensive alumni networking platform that significantly enhanced organizational engagement, resulting in a 90% increase in alumni participation.

Web Development Intern, Bharath Intern   **Feb 2023 – Apr 2023**

- Built and maintained websites and web applications, enhancing front-end and back-end development skills and delivering 5 high-quality web projects.

Skills

Languages: C, Python, SQL
Web: HTML, CSS, JavaScript , Bootstrap
Tools: MySQL, Jupyter notebook, Visual Studio Code, Git & GitHub
CS Fundamentals: Data Structure and Algorithm (DSA), OOPs, Operating System (OS), DBMS, Computer Network (CN), Software Development Life Cycle Concepts
AI Fundamentals: Artificial Intelligence, Machine Learning

Achievements

- Attained 2-star rating on CodeChef and earned PET and BEC certifications from Cambridge University.
- Obtained 7 online certifications from Analytics Vidhya, LetsUpgrade, and Cognitive Class..
- Earned 4 NPTEL certifications, including Elite + Silver, and achieved Oracle Cloud Infrastructure 2024 Generative AI Certified Professional and Oracle Cloud Infrastructure 2024 Certified AI Foundations Associate certifications.
- Secured Common Internship Test certification from Internship Studio and 7 certifications from Cisco.
- Scored 248 out of 400 on the NxtWave Employability Test and Achieved certifications in C and Python from CodeChef.
- Achieved conference paper acceptance on A Novel Boosted Machine Learning Model For Software Defective Prediction.

Extra-Curricular and Responsibility

- Conducted seminars on Covid-19, Computer Networks, and Machine Learning at Vignan University.
- Served as coordinator for Mahotsav, a national-level college fest.