AMRUTHA M

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SUMMARY

I'm a Computer Science and Engineering student with a keen interest in Internet of Things, AI, and Data Science. I enjoy working with Python, SQL, and data analysis, and I have hands-on experience in machine learning and exploratory data analysis. I love solving problems and finding innovative ways to apply technology to real-world challenges. I'm always eager to learn, collaborate, and contribute to exciting projects that push the boundaries of what's possible.

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, HTML/CSS
- **Data Science & ML**: Pandas, NumPy, Matplotlib, Scikit-Learn
- **Tools & Frameworks:** Jupyter Notebook, Git, Excel

INTERNSHIPS AND PROJECTS

Internship: Data Science with Python by Personifwy **Feb 2024 to April 2024**

- Worked on Hate Speech Detection and Surprise Housing Case Study as key projects.
- Developed proficiency in Python programming, including key libraries like NumPy, Pandas, Matplotlib and Scikit-Learn.
- **Surprise Housing Case Study:** Learned how to perform data cleaning, exploratory data analysis, and predictive modeling to identify pricing trends. Gained experience in building and evaluating regression models and applying data visualization techniques.
- **Hate Speech Detection:** Learned how to implement Natural Language Processing (NLP) techniques for text classification, fine-tune machine learning models, and evaluate performance using precision, recall, and accuracy metrics.
- Gained foundational knowledge of Deep Learning and basic Machine Learning models like Decision Tree Classifier, Logistic Regression, Support Vector Machines (SVM), Naive Bayes Classifier and Random Forest.
- Applied Probability and Statistics for data analysis and model evaluation.

Industrial Wastewater Monitoring (IoT Project)

- Developed an IoT-based wastewater monitoring system using Raspberry Pi and various sensors like pH, turbidity, dissolved oxygen, temperature, and flow sensors for real-time water quality assessment.
- Automated control using pumps, valves, and motors, ensuring efficient wastewater treatment.
- Enabled remote monitoring and control via Wi-Fi, Bluetooth, or GSM/GPRS communication modules.

EDUCATION

Bachelor of Technology - Internet of Things **Nov 2022 - Jun 2026 (Expected)**

Presidency University, Bengaluru

Pre-University College **Sep 2020 - Jun 2022**

Seshadripuram Composite PU College, Bengaluru

Secondary School Leaving Certificate **May 2020**

Poorna Prajna Education Centre, Sadashivanagar, Bengaluru

ADDITIONAL INFORMATION

- **Languages:** English, Kannada, Hindi.
- **Achievements:** Served as Secretary and Vice President Membership in Presidency University Toastmasters Club and Member of the Design Team in the UNSDG Club.