

# BITRA PRAVEETH SAI

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## EDUCATION

<b>Amaravathi Junior College</b> 12th Grade - Percentage: 69%	Jun 2020 - May 2022
<b>Parul University</b> Bachelor of Technology in Computer Science and Engineering (Big Data Analytics) - CGPA : 7.55	Aug 2022 - Present
<b>Parul University</b> One Year Diploma in Biomedical Instrumentation - CGPA : 7.70	Sep 2024 - Aug 2025

## PROJECTS

<b>Parkinson's Disease Prediction using Machine Learning</b> Machine Learning Project	Jul 2024 - Aug 2025
<ul style="list-style-type: none"><li>Developed a predictive analytics framework for early detection of Parkinson's Disease using supervised machine learning algorithms.</li><li>Implemented and optimized models (Logistic Regression, Decision Tree, K-Nearest Neighbors, XGBoost) to classify patients based on vocal biomarkers from public datasets.</li><li>Achieved up to 95% accuracy with KNN and 94.8% with XGBoost.</li></ul> <b>Tech Stack:</b> Python, Scikit-learn, XGBoost, Pandas, Matplotlib and Seaborn	
<b>Hospital Management System</b> Database, Data Analysis and Visualization Project	Mar 2025 - Nov 2025
<ul style="list-style-type: none"><li>Built a Flask-based web application to digitalize hospital operations and improve patient care efficiency.</li><li>Implemented Role-Based Access Control (RBAC) aligned with HIPAA principles, restricting access by roles.</li><li>Developed dynamic patient record management with Pandas</li><li>Built an interactive dashboard featuring real-time visualizations.</li></ul> <b>Tech Stack:</b> Python (Flask, Pandas), HTML, CSS, JavaScript (Chart.js), CSV	
<b>Patient Segmentation Using Clustering Algorithms</b> Data Analysis and Machine Learning Project	Jun 2024 - Oct 2024
<ul style="list-style-type: none"><li>Designed and implemented a machine learning model using K-Means clustering on the MIMIC-III dataset to categorize 100,000+ medical records based on age, medical history, and clinical features.</li><li>Conducted data cleaning, feature engineering, and visualization to extract meaningful insights for enhanced healthcare decision-making.</li></ul> <b>Tech Stack:</b> Python, Pandas, Scikit-learn, Matplotlib	

## VOLUNTEER EXPERIENCE

<b>Hiring Assistant – TeamBulgogi</b>	May 2025 - Aug 2025
<ul style="list-style-type: none"><li>Assisted in screening and analyzing candidates for video editing and content creation roles.</li><li>Helped shortlist profiles based on skill relevance, portfolio strength, and team requirements.</li></ul>	

## TECHNICAL SKILLS

<ul style="list-style-type: none"><li><b>Programming:</b> Python, Java(familiar)</li><li><b>Development:</b> HTML, CSS, JavaScript, Flask</li><li><b>Databases:</b> MySQL, MongoDB(familiar)</li><li><b>CS Subjects:</b> Operating System, Database Management System</li><li><b>Machine Learning:</b> Familiar with Tensorflow, Scikit learn, Deep learning models and concepts</li></ul>
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## SOFT SKILLS

<ul style="list-style-type: none"><li>Problem Solving, Communication, Teamwork, Adaptability, Critical Thinking, Ability to Understand</li></ul>
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## CERTIFICATIONS

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- Machine Learning and Data Analytics by Infosys
- Deloitte Australia - Data Analytics Job Simulation [↗](#)
- Supervised Machine Learning: Regression and Classification [↗](#)
- Advanced Learning Algorithms [↗](#)
- Introduction to Data Science by Cisco [↗](#)
- Python Essentials 1 by Cisco [↗](#)
- Computer Networks and Internet Protocol by NPTEL
- Data Analytics Essentials by Cisco [↗](#)

## TRAININGS AND WORKSHOPS

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**Hands-on Workshop on IoT | Parul Institute of Engineering and Technology**

**Hands-on Workshop on Microcontrollers and Interfacing | Parul Institute of Technology**

**Audited Google Data Analytics Professional Certificate | Coursera**

## CO-CURRICULAR ACTIVITIES

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**Astronomy Club:** Organized stargazing events

**IoT Club Member**

**College event coordinator committee member**