

Priyanka A

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Education

Sai University, Chennai, India

2022 – 2026

B.Tech in Computing and Data Science (Double Major: Computer Science & Data Science)

CGPA: 8.78/10

Relevant Coursework: AI, DL, ML, Adv. Speech Technology, Image Analysis, Embedded Systems, OS, DBMS, CN, DSA

Certifications: Google Business Intelligence, Google UI/UX design, CS50T (Harvard), DataCamp Associate Data Analyst, Google Digital Marketing, HubSpot Inbound Marketing

Skills

Languages: Python, JavaScript, C, R **Databases:** SQL, NoSQL **Frameworks:** React, Tailwind CSS, Bootstrap
AI/ML Tools: TensorFlow, Keras, Scikit-Learn, Langflow, DataStax, NumPy, Pandas **Product Design:** Figma, Adobe Suite, Wireframing, Prototyping **DevOps & Tools:** Git/GitHub, CoppeliaSim, Fusion 360, VS Code
Soft Skills: Communication, Critical Thinking, Problem-solving, Learnability

Projects

Speaker Identification Using MFCC 🧠 (Python, Scikit-Learn) Dec 2024

- Engineered an ML pipeline leveraging Mel-Frequency Cepstral Coefficients (MFCC) for speaker recognition.
- Optimized feature selection and hyperparameters to enhance classification accuracy.

Image Classification Using Pretrained Models 🧠 (Python, TensorFlow) Dec 2024

- Implemented Transfer Learning with CNNs (Xception, ResNet101V2, InceptionResNetV2) for high-accuracy classification.
- Applied Batch Normalization and Dropout for enhanced generalization.

Sentiment Analysis with Transformers 🧠 (Python, TensorFlow) Nov 2024

- Developed a Transformer-based sentiment analysis model using attention mechanisms.
- Evaluated using BLEU scores and confusion matrices to ensure robust classification.

Cryotherapy Treatment Outcome Prediction 🧠 (Python, Scikit-learn) Dec 2024

- Developed a predictive model to determine the success of cryotherapy treatment using patient attributes.
- Applied classification algorithms including Logistic Regression, SVM, Decision Trees, Random Forest, AdaBoost, and Gradient Boosting.
- Performed hyperparameter tuning to optimize model accuracy, achieving a peak performance of 91.3% with SVM (RBF Kernel).
- Implemented feature selection (SelectPercentile) and dimensionality reduction (PCA, t-SNE) for performance improvements.

Awards and Honors

- Full Scholarship Recipient** – 100% tuition + residence for entirety of the ug degree, awarded to Top 1% (2022-26)
- Dexterity Global Fellow** – One among 70 students in India selected for a rigorous leadership program (2023-Present)
- Aspire Leaders Fellow** – Among 150 global first-generation graduates from 200k+ applicants (2023)
- National Painting Competition Winner** – First place at Vibrance, VIT Chennai (2023)
- Stockholm Event Best Painting Award** – Recognized for artistic excellence (2023)

Positions of Responsibility

- Peer Tutor, Embedded Systems** – Conducted tutorials for 20+ students, improving conceptual understanding through hands-on learning, while independently advancing knowledge for the IIT e-YRC.
- Student Grievances Committee** – Sole student representative, nominated by Dean to advocate student well-being
- Art Club President** – Scaled club activities by 30%, organized workshops, and mentored budding artists.
- Turingites (CS Society) Principal Designer** – Designed official branding assets, facilitated CS training sessions.
- Cultural Society Member** – Spearheaded strategic discussions on optimizing outreach and funding efficiency.