Sarayu Thampan

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Bachelor of Technology
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EDUCATION

•**Bachelor of Technology in Computer Science and Engineering**   *2021-25*

PES University, Bangalore.   CGPA: 8.96 (until 6th semester)

PERSONAL PROJECTS

• **American Sign Language (alphabet) Recognition**   *2024*

An application that recognises the ASL alphabet from the user's gesture.
  – Allows for creation of custom dataset and training of it.
  – Uses Random forest for classification.
  – Technology Used: Python (OpenCV), Mediapipe.

• **Question Answering Model**   *2024*

Fine-tuned a BERT model for Question answering on a specific domain.
  – Trained on the SQuAD dataset.
  – Technology Used: Jupyter notebook, Hugging Face.

• **RecoveryPoint**   *2023*

A lost and found system that helps users manage items and find their missing items.
  – Users can report lost items or ones they have found.
  – Lost items are matched to found ones based on item description.
  – Admin tasks are also handled in the application.
  – Technology Used: Django, HTML, CSS, SQL, Hugging Face.

• **SongScript**   *2023*

A web application that identifies the song name and generates it lyrics based on the user-uploaded audio file.
  – Technology Used: OpenAI's API key, HTML, CSS, Javascript.

• **Soil Classifier**   *2023*

An application that detects the type of soil in the image uploaded by the user.
  – A CNN model is trained for classification.
  – Technology Used : Keras

EXPERIENCE

•**Software Product Development Internship**   *June - August 2024 (2 months)*

Bayer Science and Innovation Pvt Ltd   On-site

  – Working on FarmRise, an application that provides agronomic information and advice relevant to smallholder farmers.

TECHNICAL SKILLS AND INTERESTS

Languages: Strong: Python, C; Moderate: HTML/CSS ; Basic: Java
Libraries : NumPy, Matplotlib, Pytorch, Tensorflow, scikit-learn, Keras, Hugging Face
Tools: VS Code, Git, Github
Frameworks: Hugo
Cloud/Databases: MySQL, AWS, Docker
Relevant Coursework: Machine learning, Data Analytics, Data Structures & Algorithms, Object Oriented Programming, Database Management System, Software Engineering.
Areas of Interest: Machine learning, Data Analytics.
Soft Skills: Problem Solving, Self-learning, Sharp mind for identifying patterns, Hard working

ACHIEVEMENTS

•**Six-time recipient of Prof. CNR Rao Scholarship** 40% tuition fee refund   *2021 - 2023*

•**Top 20 in the Kalpana Hackathon** Organized by PES University   *2024*

CERTIFICATIONS AND VOLUNTEERING

•**Intro to Flutter & Firebase Course Certificate by PESU I/O**   *2022*

•**Hackerrank Problem Solving- Basic and Intermediate**   *2022*

•**Volunteered at the Data Analytics and IoT Workshop** PES University   *2022*