Santosh Pandey

Hetauda-Makawanpur,Nepal

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EDUCATION

SRM University - AP **08 2022 – 05 2026**
*B.Tech CSE - **8.34*/10*** *Guntur, India*

Hetauda School Of Management and Social Sciences **07 2020 – 07 2022**
*+2 - Science - **2.82/4.0*** *Hetauda, Nepal*

INTERNSHIP

Eagleeyetech **08 2024 – 08 2025**
Dynamic Blog Website Development *Kathmandu, Nepal*

- Role:Development Team Member
- Built Dynamic Blog Website for a client based on the SRS requirements provided.
- Collaborated with a team of senior developers to design and implement new features for website.
- Performed debugging and testing to ensure the quality and reliability of the developed website.
- Participated in code reviews and provided constructive feedback to improve code quality and maintainability.

CAPITAL MARKET EXPERIENCE

Independent Trader **2022 – Present**
Self-Directed Capital Market Enthusiast

* Actively trading in various financial instruments for over 3 years like NEPSE, focusing on **RTM** and **SMC (Smart Money Concepts)**.
* Experienced in mutual funds, equity trading, and capital market analysis.
* Regularly read financial literature, including books such as "Investing in Gold and Silver", to stay updated on market trends and investment strategies.

PROJECTS

Music Player | Java, React, JSON Server, HTML,CSS **08 2024**

* Initiating the project through design thinking and problem identification, securing collaboration with Spotify.
* Leading a dynamic cross-functional team throughout the agile project lifecycle, optimizing productivity, navigating challenges, and ensuring adherence to key milestones.

SMS - Student Management System | Python, PHP, MY SQL **12 2024**

* Used MySQL database has been chosen for developing the relevant databases.
* All possible features such as verification, validation, security, user friendliness etc. have been considered.

Advanced Speech Emotion Recognition | Python, TensorFlow, Librosa, CNN-LSTM **08 2025**

* Developed an advanced Speech Emotion Recognition system using deep learning techniques to classify human emotions from speech audio signals.
* Utilized the TESS (Toronto Emotional Speech Set) dataset for training and testing the emotion recognition model.
* Implemented audio feature extraction techniques such as MFCC and Mel Spectrogram using Librosa to improve emotion classification accuracy.

* Trained CNN-LSTM models to detect emotions like happy, sad, angry, fearful, and neutral with enhanced real-time prediction performance.

Real-Time Object Detection system for customer hardware | Python, YOLO, OpenCV **01 2026**

* Developed an AI-powered real-time object detection system for Augmented Reality applications using computer vision and deep learning techniques.
* Trained and tested the model on the COCO (Common Objects in Context) dataset for accurate multi-object detection and classification.
* Implemented YOLO and OpenCV to detect and track real-world objects from live camera feeds with low-latency performance.
* Integrated Augmented Reality overlays to display interactive virtual elements on detected objects in real time.

RESEARCH PUBLICATIONS

Advancing Speech Emotion Recognition: A Comprehensive Evaluation on the TESS Dataset **07 2026**

- Co-authored a research paper on speech emotion recognition, published in **IEEE Xplore**.
- Evaluated CNN-LSTM architectures for speech emotion recognition using the TESS dataset.
- Performed comparative analysis of classification performance across multiple emotion categories using standard evaluation metrics.

POSITION OF RESPONSIBILITY

International Students Ambassador **01 2023 – 01 2026**
Office of International Relations, SRM University - AP

* Conducted **Coding Challenge** for International Students
* Beach Clean Campaign at Machilipatnam Beach - Krishna, Andhra Pradesh

TECHNICAL SKILLS

Languages: Python, HTML, CSS, C, C++, SQL
Developer Tools: VS Code, Code Blocks
Technologies/Frameworks: Linux, GitHub

RELEVANT COURSEWORK

- Data Structures
- Python
- OOPS Concepts
- Software Engineering
- Cyber Security
- Machine Learning

CERTIFICATES

- The Joy of Computing using Python - NPTEL
- HTML5 and CSS3 Complete Course: Build Websites like a Pro - Udemy
- JavaScript for Beginners - Udemy
- Pentesting Web Application - Infosys
- Cyber Security and Hacker Tactics Awareness Training - Infosys
- MongoDB Certified Associate Developer - MongoDB

HONORS AND ACHIEVEMENTS

- Fully Funded Undergraduate study under **Study In India Scholarship** worth **12000 USD**.
- Awarded a **Certificate of Appreciation** by **We for Change Organization**.
- Received a **Certificate of Participation** as a co-author at **CI2A 2026 (IEEE)**.
- Participated in multiple hackathons.