

# SNIGDHA SV

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portfolio : [www.snigdha-portfolio.com](http://www.snigdha-portfolio.com)

## EDUCATION

B.Tech   Computer Science and Engineering	2026	PES University	8.31/10
Class XII   CBSE	2022	National Public School	95.2%
Class X   CBSE	2020	National Public School	92.6%

## TECHNICAL SKILLS

- Programming Languages: Python, C/C++, JavaScript, HTML/CSS, Flask, MySQL, Java
- Technologies/Frameworks/Libraries: React.js, Three.js, streamlit, ollama, kafka, spark, crewai, RESTful development

## PROJECTS

### PDF Chat Application:

- Built a RAG-based chat app using Ollama and Sentence Transformers for PDF text embeddings.
- Enabled semantic search and Q&A via Streamlit UI, improving document retrieval efficiency.

### Crew-AI Instagram Marketing Team:

- Developed a multi-agent AI system to automate market research, content planning, and post generation, cutting manual effort.
- Built an interactive Streamlit dashboard for visualizing insights, AI-generated content briefs, and strategic reports.

### Distributed File Orchestration and Synchronization: Multi-Node Data-Transfer-Framework for Linux:

- Developed a secure Python-based multi-client TCP server with authentication and concurrent file management (upload, download, preview, delete, list).
- Ensured data integrity with directory isolation and robust error handling.

### Application Monitoring Dashboards:

- Designed a FastAPI and Kafka-powered analytics platform with MySQL storage and Grafana visualization.
- Tracked system performance metrics in real-time for proactive debugging.

### Music Mood Analyzer

- Processed live audio data using Kafka and Spark Streaming to classify song moods using audio features.
- Stored results in MySQL and visualized trends via an interactive dashboard.

### Payroll Management System:

- A Payroll Management System developed using React, Flask, and MySQL, designed to streamline employee payroll processes. The system features a user-friendly interface for managing employee records, salary calculations, and tax deductions, with real-time data updates and secure storage.

## WORK EXPERIENCE

### Research Trainee At ISFCR, PESU

Jun 2025 - Jul 2025

- Developed and evaluated adaptive ensemble machine learning models for intrusion detection using CICIDS2017/2018 datasets, improving threat detection accuracy and producing a reproducible open-source codebase.

### Intern At CAVE Labs, PESU (Fabrik)

Jun 2024 - Aug 2024

Summer Intern at CAVE Labs, PESU in association with Fabrik

- Developed an application that allowed users to seamlessly upload and edit GLB files, improving 3D model management and manipulation, which resulted in a more intuitive and efficient user experience.

## EXTRACURRICULARS AND CERTIFICATIONS

- **Certifications:**
  - **Tata Group Data Analytics Job Simulation on Forage - July 2025**
    - Used GenAI for EDA and risk analysis; proposed a no-code delinquency model and AI-driven collections strategy for Tata iQ.
  - **Hewlett Packard Enterprise Software Engineering Job Simulation on Forage - July 2025**
    - Developed and tested a RESTful web service using Java Spring Boot; implemented unit testing.
  - **Exploratory Data Analysis For Machine Learning (IBM) - coursera**
  - **Introduction To Product Management - PESU IO**
- **Awards:** Secured Third Place in Inferentia Hackathon for developing an AI-driven medical transcription solution.
- **Activities:** Event Production Volunteer-TedxPESU, Operations Team Member-Shunya (Math Club), Volunteer-Katalyst India, Fundraising Volunteer-YuvaSpark