

# Tonmoy Day Sarkar

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## Objective

I am a driven software engineer holding a Bachelor's degree in Computer Engineering with a robust foundation in software development, data analysis, and machine learning. I am actively pursuing challenging roles that offer learning opportunities to develop as a dynamic and competent professional.

## Education

**Jain (Deemed-To-Be University), Bangalore, India**

August 2020 - July 2024

Bachelor of Technology in Computer Engineering (Software Engineering)

**CGPA: 8.727/10**

**Relevant Coursework:** Object Oriented Analysis and Design, Data Structures and Algorithms, Principles of Operating Systems, Computer Networks, Machine Learning, Software Security, DevOps, Cloud Computing, Web Technology.

## Projects

- Smart Recommendation System using Collaborative Filtering Approach** [Link](#)
  - Developed an E-commerce Smart Recommendation System using collaborative filtering and machine learning, enhancing personalized product recommendations and customer engagement.
- Customer Churn Analysis with advanced ML Technology** [Link](#)
  - Analyzed customer churn for a telecom company using SMOTE-ENN and hyperparameter tuning with Randomized-SearchCV in advanced machine learning techniques to improve churn prediction accuracy.
- Personalized Medicine Recommendation System (Health Care Center)** [Link](#)
  - Developed a Symptom-Based Disease Diagnosis Web App using Flask and machine learning, providing accurate disease predictions and personalized medical recommendations.
- Daily Weather** [Link](#)
  - Developed a web application that fetches data from a public API and displays it dynamically on a webpage with a clear and visually appealing presentation.

## Skills

- Research Skills:** Writing - original draft, review & editing, Methodology, Conceptualization, Formal analysis.
- Technical Skills:** Python, SQL, DSA, HTML, CSS, JavaScript.
- Soft Skills:** Creative, Critical Thinking, Problem Solving, Communication, Presentation, Team-work, Leadership, Time Management, Work Ethic.

## Publications & Presentations

- E-commerce-based Smart Recommendation System using element-by-element collaborative filtering following with the Machine Learning Technology** [Link](#)

**Presented at:** 2024 International Conference on Communication, Computing and Internet of Things (IC3IoT)

- Analysis of Customer Churn for Telecom Company with SMOTE-ENN and Hyperparameter Tuning Randomized-SearchCV Technique in Advanced Machine Learning Technology** [Link](#)

**Presented at:** International conference on Advancements in Power, Communication and Intelligent system-2024

## Certifications & Awards

- Machine Learning Virtual Internship** - Codsoft, IT Service
- Software Engineer, Software Engineer Intern** - Issued by HackerRank
- Accenture North America - Data Analytics and Visualization** - Issued by Forage
- Asia AI Odyssey Challenge** - Issued by Microsoft
- Robotics Course** - Infosys Springboard
- Moving Data into Hadoop** - Issued by Cognitive Class
- The Chancellor's Scholarship - Jain (Deemed-To-Be University)**
  - Issued by Jain (Deemed-To-be University) · Jul 2020
- Study in India (SII) – G2 Scholarship**
  - Issued by Government of India · Aug 2021