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: 8.57/10*

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, Software Quality Management, IT Infrastructure Technology.

Professional Experience

Machine Learning Virtual Internship   June 2024 - July 2024
— Codsoft, IT Service, West Bengal, India.
As a Machine Learning intern, I had the opportunity to work on various projects and tasks, analyze complex datasets, and derive meaningful insights. My role involved collecting, cleaning, and interpreting data, as well as assisting in the development of machine learning solutions.

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. Improved churn prediction accuracy through data balancing and optimized model parameters.
- **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. Your goal is to integrate the API seamlessly into the application and present the fetched data in a clear and visually appealing manner.

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

- **Predicts the Restaurant rating based on other features with the comparison of Linear Regression and Decision Tree Regression Algorithms in Machine Learning Technology**

(In review process)

- **Comprehensive Geospatial and Statistical Analysis of Restaurant Distribution Using K-means Clustering in Machine Learning Technology**

(In review process)

Skills

- **Research Skills:** Writing - original draft, Writing - 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.

Languages

- English
- Bengali
- Hindi

Certifications

- **Software Engineer Intern**
  - Issued by HackerRank
- **Accenture North America - Data Analytics and Visualization**
  - Issued by Forage
- **Problem Solving (Basic + Intermediate), Python (Basic)**
  - Issued by HackerRank
- **Asia AI Odyssey Challenge**
  - Issued by Microsoft
- **Robotics Course**
  - Infosys Springboard
- **Moving Data into Hadoop**
  - Issued by Cognitive Class
- **Developer Job Simulation**
  - Issued by Forage

Awards

- **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 2020