SAUMYADIPTA SAHA

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Technical Skills

- Programming and Core Skills: Python, C, C++, C#, Java, JavaScript, Data Structures & Algorithms (DSA)
- Frameworks: Flask, Django
- Web Technologies: HTML, CSS, JavaScript, PHP
- Databases: SQL, MongoDB
- Tools: Postman, Swagger, Git, Jupyter, Linux
- · Libraries & Data Analysis Tools: Matplotlib, NumPy, Seaborn, Pandas
- Machine Learning & Deep Learning: Keras, OpenCV, Scikit-Learn

Experience

Koders (IT service company)

June 2024 - July 2024

Dehradun, Uttarakhand

- **Backend Development Intern**
 - Engineered critical backend features for an e-commerce platform using Flask to enhance user experience, achieving a 20% reduction in server response time through optimized query handling.
 - Integrated Razorpay payment gateway, facilitating secure and seamless transactions for over 5,000 users per month, reducing transaction failures by 15%.
 - Spearheaded database migration from MySQL to MongoDB to enhance platform scalability; achieved a 30% faster data retrieval time and a 2x increase in data capacity by restructuring database schemas.
 - Implemented JWT-based secure session management, reduced unauthorized access incidents by 25% and ensured compliance with security best practices
 - Integrated Google OAuth 2.0 for streamlined and secure user authentication, increased login success rates by 10% and enhanced the overall user experience.
 - Optimized SQL and MongoDB queries, improved query response times by 40%, which resulted in faster page load times and a more efficient backend system.
 - Optimized API reliability by developing robust error-handling and documentation, reducing system downtime by 15% and easing maintenance efforts for future developers.
 - Conducted in-depth API testing and debugging using Postman, resolving critical issues that improved API reliability, increasing uptime to 99.8%

Projects

Chat Fusion: Sentiment Analysis and Behavioral Insights from WhatsApp Conversations

July 2024 - August 2024

- Technologies: Python, pandas, TextBlob, VADER, Streamlit
- Summary: Developed an automated chat analysis system to extract sentiment, user activity, and generate data visualizations. Efficiently processed large datasets for behavior insights.
- Impact: Provided valuable sentiment and communication pattern insights for personal or professional use.

Movie Recommender System (Content-Based)

April 2024-May2024

- Technologies: Python, Pandas, Scikit-learn
- Summary: Built a personalized movie recommendation system by analyzing user preferences and generating recommendations using similarity algorithms.
- Impact: Enhanced user engagement with tailored movie suggestions, handling large datasets.

Face-Mark Automated Attendance system

October 2023 – November 2023

- Technologies: Python, OpenCV, TensorFlow/Keras.
- Summary: Developed an automated attendance system using computer vision and machine learning, solving real- world accuracy challenges in attendance tracking by automating the process and reducing manual errors.
- Impact: Streamlined attendance processes, saving time and ensuring accurate record-keeping.

Education

Uttaranchal University

Aug 2023 - Aug 2025

Master of Computer Application (MCA)in Artificial Intelligence & Machine Learning(AIML)

Dehradun, Uttarakhand

Gauhati University

Aug2018 – Jan 2022

Bachelor of science in computer science (**B.Sc(CS**))

Kokrajhar, Assam **Aug 2016 – Aug 2018**

Pratima Barua Pandey College

Gauripur, Assam

Higher Secondary AHSEC Board (Assam Higher Secondary Education Council)

Synod English Mission School

May 2016

Gauripur, Assam

Secondary School Certificate SEBA BOARD (Board of Secondary Education Assam)