Debarati Koner |8250228683 |Debarati.Koner2022.1@iem.edu.in|
linkedin.com/in/debarati-koner 6aa325289 | github.com/DebaratiKoner|
https://portfolio-website-git-main-debarati-koner-project.vercel.app/

Career Objective

Final year Computer Science student with strong foundations in algorithms, data structures, and full-stack development, along with interest in Artificial Intelligence and Machine Learning, Generative AI, seeking a software development role to contribute to innovative projects and continue learning.

Educational Qualifications

- Degree (B.Tech in Computer Science along with specialization in Internet of Things, Cyber Security, Blockchain Technology)
- Institute Name- Institute of Engineering and Management
- Duration (e.g., 2022–2026)
- Current CGPA-9.17
- 12th marks-83% ,Duration -2022 ,Board-CBSE , Education-Swami Vivekananda Academy, Burdwan
- 10th marks-87.8%, Duration-2020 ,Board-ICSE , Education- St.Paul's Academy, Burdwan

Technical Skills

- **Programming Languages**: C, Java, Python
- **Web Technologies:** HTML, CSS, JavaScript, React, Node.js
- **Tools & Frameworks:** Git, VS Code, TensorFlow,Streamlit,Flask
- **Databases:** MySQL, MongoDB
- **Core Subject** - Database Management System, Operating System, Object Oriented programming, Computer Networks, Cybersecurity, Data Structures and Algorithms, Blockchain, Generative AI, Artificial Intelligence and Machine Learning, Cloud Computing and Internet of Things ,Software Engineering.

Projects

1. Title: Employee Salary Prediction-AIML project
Technologies used: Python, Streamlit
Brief Description: The project is a Streamlit web app that predicts whether an employee's salary is above or below 50K using a Random Forest classifier trained on demographic and work-related features.It integrates SMOTE for class balancing and provides an interactive UI for real-time salary prediction.
Github Link: https://github.com/DebaratiKoner/Employee-Salary-Prediction-using-Random-Forest

2. Title: Youtube Summarization
Technologies used: Tech Stack: FastAPI, Google Gemini AI, YouTube Transcript API, Uvicorn, Jinja2, HTML, CSS, python-dotenv.
Brief Description: The YouTube Summarizer is a FastAPI web app that extracts transcripts from YouTube videos and generates concise summaries using Google Gemini AI.It offers both a web interface and API endpoints, returning summaries in a clean JSON format.
Github Link: https://github.com/DebaratiKoner/Youtube-Summarizer

3. Title: AI Chatbot
Technologies used: Next.js (React, TypeScript)
Brief Description: The AI Chatbot is a Next.js web application designed to provide an interactive chatbot interface.
Github Link : https://github.com/DebaratiKoner/AI-Chatbot

4. Title: Airbnb & Hotel Booking Analysis — Data Analytics Project
Technologies used: Python
Brief Description: Analyzed Airbnb/hotel booking data to study customer behavior, cancellations, and pricing trends using Python and data visualization.
Contribution:Cleaned and processed large booking datasets.Performed EDA to identify key patterns and insights.Built visualizations to explain trends in bookings and cancellations.
Github link: https://github.com/DebaratiKoner/VOIS_AICTE_Oct2025_Debarati-Koner

5. Title: A Comprehensive Large Language Model based Summarization tool for the Educational Contents into Intelligent E-Learning Platforms
Technologies used : Python
Brief Description: It is the analysis for my research paper. The method employs multimodal input processing for text, diagrams, and videos to enable overall educational content summarization. Preliminary evaluations show APSG enhances learner engagement, improves retention rates, and reduces cognitive overload, hence making personalization of learning in digital learning environments more effective.

6. Title: Text Summarization-GEN AI Project
Technologies used: Python, Streamlit
Brief description: Developed an AI-powered text summarization tool capable of generating both extractive and abstractive summaries from input documents. Utilized natural language processing techniques to condense lengthy content while preserving key information.
Contribution: Built and deployed the summarization pipeline using the facebook/bart-large-cnn model for both extractive and abstractive summarization, integrated using Python and Streamlit for a user-friendly interface.
Github link: https://github.com/DebaratiKoner/Text-Summarization

7. Title: Book Recommendation System-ML Project
Technologies used: Python, Machine Learning, Flask
Brief description: Built a Book Recommendation System that suggests books based on user ratings using collaborative filtering.

The system recommends top-rated books similar to user preferences through a user-friendly web interface.

Contribution: Developed the recommendation engine using Python and collaborative filtering techniques based on ratings data. Designed and deployed the web application using Flask, enabling users to input a book and receive personalized recommendations in real time.

Github link: https://github.com/DebaratiKoner/Book-Recommendation

8. Title: Steganography – Cyber Security Project

Technologies used: Python

Brief description: Created a Steganography-based Cyber Security system that hides and extracts secret messages within images and audio files. The project focuses on secure information transmission by concealing data in media formats without altering their visible characteristics.

Contribution: Implemented the steganographic encoding and decoding logic using Python. Used libraries like OpenCV and wave to manipulate image and audio files for data embedding and extraction, ensuring confidentiality and data integrity in secure communications.

9. Title: AI Based Cat Emotion Recognition System

Technologies used: Python, HTML, CSS, JavaScript ,Flask

Brief description: This project builds an AI-based emotion recognition system for cats that analyzes both their facial expressions and vocal sounds using computer vision and audio processing techniques. It uses deep learning models to classify emotional states from visual and audio inputs to better understand cat behavior

Github link: https://github.com/Springboard-Internship-2025/Dev-of-an-AI-Based-Cat-Emotion-Recognition-System-Using-Facial-and-Vocal-Analysis_Nov_Batch-6_2025/tree/DebaratiKoner

Internships

1. Organization Name: Edunet Foundation (in collaboration with AICTE)

Duration: September 2025 – October 2025 (4 weeks)

Role: Intern – Artificial Intelligence & Cloud Technology

Responsibilities: Learnt fundamentals of Artificial Intelligence and Cloud Computing.

Contribution: Completed hands-on training tasks and practical exercises. Strengthened understanding of AI, ML..

2. Organization Name: Edunet Foundation (in collaboration with AICTE)

Duration: August 2025 – September 2025 (6 weeks)

Role: Intern – Front-End Web Developer

Responsibilities: Worked on core front-end technologies: HTML, CSS, and JavaScript.

Contribution: Built interactive and responsive web pages. Gained hands-on experience with real development assignments.

3. Organization Name: Edunet Foundation (in collaboration with AICTE)

Duration: June 2025-July 2025 (6 weeks)

Role and Responsibilities: Intern – worked on Artificial Intelligence & Machine Learning concepts and applications.

Contribution**:** Gained hands-on experience, built AI/ML projects, and applied ML models to solve real-world problems.

4. Organization Name: Skill Wallet (in collaboration with SmartBridge & SmartInternz)

Duration: July 2025 – September 2025 (6 weeks)

Role and Responsibilities: Intern – completed a Virtual Internship Program on Google Cloud Generative AI, learning key concepts and applying them practically.

Contribution: Demonstrated high efficiency in understanding and implementing Generative AI models, gaining practical experience through hands-on projects and applications and also completed cources on Google Cloud and futureskills-prime.

5. Organization Name**:** AI Wallah

Duration**:** June 2025 – July 2025(1 month)

Role and Responsibilities: GenAI Engineer Intern – worked with APIs and tools like Gemini, ChatGPT, Grok, Groq, ElevenLabs, and on-device models.

Contribution: Built 2 AI projects leveraging Generative AI technologies and explored multiple state-of-the-art APIs.

6. Organization name: Internshala

Duration: June 2025 – July 2025

Role and responsibilities: Participated in the Internshala Student Partner (ISP) Program, acting as a bridge between Internshala and students of my college. The role involved promoting various Internshala initiatives, internship opportunities, and online training programs.

Contribution: Conducted awareness campaigns and webinars to help students find meaningful internships. Increased platform engagement through peer interactions, social media outreach, and college events. Helped students register and explore relevant career-building resources on Internshala. Earned recognition for early participation in the ISP 50 First Registrations Contest Webinar.

7. Organization Name: Infosys Springboard

Duration : November 2025-January 2026

Role: Intern – Artificial Intelligence

Responsibilities: Learnt fundamentals of Artificial Intelligence

Contribution: Completed hands-on training tasks and practical exercises. Strengthened understanding of AI, ML,Web Technologies.

 8. Organization name: Ybi Foundation

Duration: June 2024 – July 2024

Role and responsibilities: Completed a hands-on internship focused on real-world applications of Artificial Intelligence (AI) and Machine Learning (ML)**.**

Contribution: Developed and trained AI models for predictive analytics, enhancing decision-making capabilities.

Certifications

1. Foundations of Cyber Security-Google (Coursera)

2. Introduction to Computers and Operating Systems and Security-Microsoft (Coursera)

3. Introduction to Responsible AI-Google Cloud (Coursera)

4. Machine Learning Foundations: A Case Study Approach-University of Washington (Coursera)

5. Introduction to Artificial Intelligence (AI)-IBM (Coursera)

6. Generative AI in Learning and Development (LinkedIn)

7. Deloitte Data Analysis

8. Artificial Intelligence Fundamentals (IBM SkillsBuild, CISCO)

9. Web Development Fundamentals (IBM SkillsBuild)

10. Digital Application Fundamentals-STEM (Futureskills-prime)

Achievements

1. Participated in a Study Abroad Program on Artificial Intelligence (AI), Internet of Things (IoT), Machine Learning (ML), and Data Analytics at the National University of Singapore (NUS) in, July 2023.

2. Participated in Hack4Bengal , June 2025

3. Completed McKinsey.org Forward Program , October 2025

4. Participating in Smart India Hackathon 2025, September 2025

5. Awarded Rank 5 in CSE(IOTCSBT) in 3rd year , September 2025

6. Participated in Adobe India Hackathon Round 1, August 2025

7. Participated in GenSpark 1.0 2025 Ideathon , August 2025

Extracurricular

1. Member of Dance Club-Institute of Engineering and Management (IEM) , August 2022 – Present

2. Participation in Elevate organized by IEEE IEM SB , April 2023

Languages Known

English, Bengali, Hindi

Declaration with Signature, Date and Place

Debarati Koner

26.06.2025

Bardhaman,WestBengal,India