PRATYUSH BASU

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SUMMARY

AI-focused final-year Computer Science and Engineering student skilled in Python, machine learning and deep learning. Experienced in building and deploying ML models, integrating generative AI using tools like Gemini API, and developing AI-powered backends with Flask. Familiar with HTML, CSS and Bootstrap for frontend. Strong in teamwork and problem-solving through hackathons and projects. Enthusiastic about exploring latest AI trends and gaining hands-on experience through practice projects and industry learning.

TECHNICAL SKILLS

- Programming Languages: C, C++, Python
- Frontend Development: HTML5, CSS3, Bootstrap, JavaScript
- Backend & Frameworks: Flask (Python-based)
- Database & Querying: SQL (basic)
- Tools & Platforms: Git, GitHub, VS Code, Google Colab, Chrome Developer Tools
- Machine Learning & Data Analysis: scikit-learn, Keras, TensorFlow, Pandas, NumPy, Matplotlib
- AI & Generative AI: Google Gemini API, Hugging Face Transformers, Basic Prompt Engineering, LLMs

EDUCATION

- **Future Institute of Engineering and Management** – Kolkata, West Bengal   — 2022-Present
- Bachelor of Technology in Computer Science and Engineering (Expected Graduation: June 2026)
- GPA: 7.57 (till the 6th semester)
- Core Curriculum: Data Structures and Algorithms (DSA), Object-Oriented Programming (OOPs)
- Honors/Awards: SVMCM Scholarship(2022-Present)
- **Harinavi D.V.A.S High School –** Harinavi, West Bengal 700148   — 2020-2022
- Higher Secondary (Class XII), PCMCS – 85%

EXPERIENCE

- **Capsitech IT Services Pvt. Ltd.** – AI/ML Intern   — July 2025 – Present
  - Working on several projects, exploring Transformer architectures and applying TensorFlow/Keras for NLP tasks and gaining hands-on experience in data preprocessing and model evaluation.

PROJECTS

- **IMDB Sentiment Analysis |LINK**
  - Built a Bidirectional LSTM model in TensorFlow/Keras with 92% test accuracy.
  - Deployed a real-time movie review sentiment predictor via Streamlit, demonstrating data preprocessing and visualization skills.
- **Mental Health Prediction for Working Professionals |LINK**
  - Designed a responsive front-end using HTML, CSS and Bootstrap for seamless user interaction.
  - Developed Flask backend for real-time KNN predictions, achieving 84% accuracy.
- **AI-Powered Fitness Planner |LINK**
  - Built a Flask back-end integrating Google Gemini API to process user inputs and generate personalized fitness and nutrition plans.
  - Designed a responsive front-end using HTML, CSS and Bootstrap for smooth user experience.

EXTRACURRICULAR ACTIVITIES

- **SparkHack Hackathon (2025)– Finalist (Top 10):**
  Led a team to the finals of SparkHack, a hackathon organized by the Electrical Engineering Department, Jadavpur University. Demonstrated strong teamwork, innovation and timely delivery of a creative tech solution under a competitive environment.
- **FrostHack S01 (2025) – Finalist (Top 8):**
  Led a team to secure a Top 8 position in a 36-hour hackathon, competing against top innovators.

SOFT SKILLS

- **Languages:** English(Professional), Bengali(Proficient), Hindi(Intermediate).
- **Collaboration & Leadership:** Teamwork, leadership, collaboration, creativity and innovation.
- **Professional Strengths:** Quick learner, adaptable, eager to embrace new challenges and technologies.

CERTIFICATES

- **Decode DSA with C++** – PW Skills   —Dec,2023
- **Data Science, AI, and Machine Learning using Python** – Ardent Computech Pvt. Ltd.   —Dec,2024
- **Deep Learning, GenAI, and Prompt Engineering** – Ardent Computech Pvt. Ltd.   — March - April,2025