



PRATYUSH BASU

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SUMMARY

Motivated and detail-oriented third-year Computer Science Engineering student with a strong focus on Artificial Intelligence and Machine Learning. Proficient in Python and experienced in developing and deploying ML models for real-world applications. Hands-on experience integrating generative AI functionalities using tools like the Gemini API. Used Flask primarily for building ML and Gen-AI powered backend systems. Comfortable with frontend technologies like HTML, CSS and Bootstrap. Demonstrated leadership and teamwork in projects and hackathons, with strong problem-solving skills. Eager to contribute to impactful projects and enhance technical expertise through hands-on learning in a dynamic environment.

TECHNICAL SKILLS

- Programming Languages: C, C++, Python
- Web Development & Frameworks: HTML, CSS, Bootstrap, JavaScript(beginner), Flask
- Database Management: SQL(beginner)
- Tools and Platforms: VS Code, Google Colab, Git
- Machine Learning & Data Analysis: scikit-learn, TensorFlow, Pandas, NumPy, Matplotlib

EDUCATION

- **Future Institute of Engineering and Management** – Kolkata, West Bengal — 2022-Present
Bachelor of Technology in Computer Science and Engineering
Expected Graduation: [June, 2026]
Core Curriculum: Data Structures and Algorithms (DSA), Object-Oriented Programming (OOPs)
GPA: 7.43 (till the 5th semester)
Honors/Awards: SVMCM Scholarship(2022-Present)
- **Harinavi D.V.A.S High School** – Harinavi, West Bengal 700148 — 2014-2022
Higher Secondary (Class XII)
Combination: Physics, Chemistry, Mathematics, Computer Science (PCMCS)
Marks: 85%

PROJECTS

- **Mental Health Prediction for Working Professional**
 - Built a machine learning model using KNN-Classifer to predict mental health conditions of professional.
 - Preprocessed data and achieved 84% accuracy through optimization.
 - Created a user-friendly web interface using HTML,CSS and Bootstrap, integrating Flask for back-end data processing.
- **Personalized Recipe Recommender Focused on Indian Delights (with Global Flavors)**
 - Developed a system that suggests relevant Indian and global dishes based on available ingredients and user preferences, with step-by-step instructions and visuals.

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).
- Leadership, Teamwork and Collaboration.
- Eager to embrace new challenges and learn technologies rapidly.
- Creativity and Innovation in developing unique solutions.

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