PRATYUSH BASU

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SUMMARY

Motivated and detail-oriented third-year Computer Science Engineering student with a strong foundation in web development, data analysis and machine learning. Proficient in Python and web technologies like HTML, CSS and Bootstrap. Experienced in using the Gemini API for integrating generative AI functionalities into backend systems. Experienced in leading collaborative projects and participating in hackathons, showcasing teamwork and 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,Java(beginner)
- 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-Classifier 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.
- **ML-Powered Health Insurance Premium Predictor**
  - Created a regression model to predict health insurance costs based on factors like age , BMI , region.
  - Preprocessed data and optimized the model, achieving 87% accuracy.
  - Designed a user-friendly interface using HTML, CSS and Bootstrap, with data fetched via Flask.

EXTRACURRICULAR ACTIVITIES

- **Hackspire Hackathon (2024):**
  Successfully led a team in a 12-hour hackathon organized by the ACM Student Chapter at FIEM, focusing on collaboration and delivering a creative solution within the deadline.
- **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,2025-Present