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, SQL and modern web technologies like HTML, CSS and Bootstrap. 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),JavaScript(beginner)
- Web Development: HTML, CSS, Bootstrap, JavaScript(beginner)
- Database Management: SQL(beginner)
- Tools and Platforms: VS Code, Google Colab
- Other: Machine Learning frameworks (TensorFlow, scikit-learn), Data Analysis (Pandas, NumPy, Matplotlib)

EDUCATION

- **Future Institute of Engineering and Management** – Kolkata, West Bengal
  Bachelor of Technology in Computer Science and Engineering
- Expected Graduation: [June, 2026]
- Core Curriculum: Data Structures and Algorithms (DSA), Object-Oriented Programming (OOPs)
- GPA: 7.24 (till the 4th 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.
- **Health Insurance Prediction System**
  Created a regression model to predict health insurance costs based on factors like age and BMI.
  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.
- **IoT and Computer Vision-Enhanced Smart and Effective Real-Time Parking Management(Group Project):**
  Collaborated with a team to create an IoT-enabled system for real-time parking availability detection using deep learning models. Integrated features like ANPR for private parking management.

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.
- **Deep Learning, GenAI, and Prompt Engineering** – Ardent Computech Pvt. Ltd.   — Nov,2024-Present