

PANKAJ BHATTACHARJEE

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Detail-oriented Software Engineer with hands-on experience in Python development, backend systems, and machine learning. Proven track record in designing scalable applications, optimizing APIs and databases, and mentoring junior developers. Enthusiastic teamplayer with a passion for continuous learning, AI/ML applications, and solving complex problems.

Professional Summary

Detail-oriented Python Developer with practical experience in backend development, AI/ML solutions, and real-time data applications. Proven track record of delivering AI-powered tools for urban analytics and safety systems. Strong skills in API design, database optimization, and problem-solving. Passionate about building scalable, data-driven solutions in fast-paced startup environments.

Education

B.Tech in Computer Science & Engineering

BRAINWARE UNIVERSITY
(2023-2027) [CGPA : 6.48]

Higher Secondary Education (WBCHSE) (XII)

KASHIRAM DAS INSTITUTION
(2022-2023) [Percentage : 57.40]

Secondary Education (WBBSE) (X)

BAZAR BANKAPASI SM HIGH SCHOOL
(2020-2021) [Percentage : 78.57]

Achievements

Solved 200+ Data Structures and Algorithms problems on platforms like LeetCode and Codeforces, covering recursion, dynamic programming, and graph algorithms.

CERTIFICATIONS

Python & Machine Learning – Nestle e-Learning (2025)

Power BI (2024)

Completed Deloitte Cyber Security Job Simulation on Forage (July 2025)

Completed Deloitte Data Analytics Job Simulation on Forage (July 2025)

Artificial Intelligence – Infosys Springboard (2025)

TATA Data Visualisation -

Empowering Business with Effective Insights Forage July 2025

TATA Data Visualisation -

Empowering Business with Effective Insights – Forage, July 2025

Projects

Urban Planning Assistant

Developed a Python-based AI tool leveraging satellite imagery and YOLO/SSIM models to detect urban changes like illegal construction and vegetation loss, achieving over 85% accuracy in test scenarios for smart city planning.

SafePulse

A women's safety application integrating real-time stress detection, crowd analysis, and emergency alerts using AI and Python. Features include an AI-powered walk companion and crowd safety monitoring.

Soft Skills

- Problem-solving
- Analytical Skills
- Communication
- Leadership
- Adaptability
- Time Management
- Teamwork Dedication
- Learning Ability
- Attention to detail

Technical Skills

Languages: Python, Java, C
Frameworks/Tools: MySQL, Power BI, GitHub, REST API
AI/ML: Machine Learning, YOLO, SSIM
Others: Web Development, Cybersecurity

Core Competencies

Software Development
Database Management
Problem-Solving
Technical Proficiency
Collaboration and Teamwork

Hobbies

Travel , Puzzles , Music

Languages

Bengali, English, Hindi