



Arpan Seth

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Khanakul, West Bengal

Profile: Enthusiastic Computer Science undergraduate with a passion for intelligent systems and scalable backend architectures. Experienced in developing real-world solutions in logistics and accessibility, and contributing to academic research. Skilled in Python, APIs, and DBMS with strong collaborative and analytical abilities.

Education

Dr. B.C. Roy Engineering College
Durgapur, West Bengal
B.Tech in Computer Science and Engineering
CGPA: 7.33 / 10 2022–2026

Joyrampur P.C. Vidyapith
Khanakul, West Bengal
WBCHSE (XII) – 93% 2022
SUBJECTS -PCMB
WBBSE (X) – 88% 2020

Skills

- **Languages:** Python, C, Java
- **Frameworks:** Scikit-Learn, NumPy, Pandas, Seaborn
- **Tools:** Git, GitHub, VS Code, IntelliJ, PyCharm, Jupyter Notebook
- **Databases:** MySQL
- **Cloud:** Microsoft Azure
- **Coursework:** OOP, OS, DBMS, DSA, CN
- **Soft Skills:** Teamwork, Communication, Problem Solving

Certificates

Microsoft Azure Fundamentals (Apr 2025)

Programming with C and C++ (Apr 2023)

Hobbies

Travelling, Reading Self-help Books, Playing Cricket

Projects

Gait-Based Recognition System (Feb 2025 – Present)

- Engineered a gait recognition system invariant to angle and clothing.
- Applied deep learning for silhouette and sequence matching.
- **Tech:** Python, OpenCV, CNNs.

Optimizing Logistics for Smart Cities: Intelligent Fleet and Delivery Management (Oct 2024 – Jan 2025)

- Built backend using Google Maps, Nominatim, and a TSP solver.
- Achieved 20% route efficiency improvement for delivery ops.
- **Tech:** Python, Flask, Google Maps API, HTML, CSS, Javascript.

Multilingual PDF Text-to-Speech Converter with Translation Capabilities (Jul 2024 – Sep 2024)

- Developed tool for multilingual text-to-speech and translation from PDF.
- Aided visually impaired and multilingual users.
- **Tech:** Python, Flask, PyMuPDF, Google Translate API, gTTS, HTML, CSS.

Research Work

Optimizing Logistics for Smart Cities: Intelligent Fleet and Delivery Management —

- Accepted in Elsevier's *Neuromorphic Computing for Brain-Computer Interfaces* (Expected Mar 2026)
- Developed smart delivery management with predictive analytics and real-time optimization.

Multilingual PDF Text-to-Speech Converter with Translation Capabilities — Accepted in Springer's *ICNSBT 2025* (Expected Aug 2025)

- Created accessible speech platform with document extraction and cross-language support.