

Pulkit Pathak

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[LinkedIn](#) | [GitHub](#) | [LeetCode](#) | [Hackerrank](#)

EDUCATION

NETAJI SUBHAS UNIVERSITY OF TECHNOLOGY

Bachelor of Technology Electronics & Communication Engineering (AIML)

November 2022 - June 2026

CGPA: **9.12**

DAV PUBLIC SCHOOL (CBSE)

Class XII - 94.6%

Rohini, Delhi

April 2008 - June 2021

TECHNICAL SKILLS

- **Languages:** C++, Python, SQL, JavaScript, HTML/CSS, Bash
- **Frameworks & Libraries:** Flask, PySpark, Pandas, Flutter
- **Developer Tools:** Git, GitHub, VSCode, Postman, Jenkins, Jupyter Notebooks
- **Databases & Data Tech:** MySQL, PostgreSQL, Firebase, AWS S3, EMR, OpenSearch

WORK EXPERIENCE

GARTNER

Software Engineer Intern

Gurugram, India

May 2025 - July 2025

- **Architected** a high-throughput ETL pipeline using PySpark, AWS EMR, and S3, **reducing data delivery latency by 80%** for Gartner's central DataHub platform.
- **Migrated** a legacy Java pipeline into a scalable Python-Spark solution, **cutting data processing time from days to hours** for the analysis of 300+ key business metrics used by executive-level teams.
- **Automated** the generation of standardised Gartner-format reports using Openpyxl, **saving the analytics team an estimated 10+ hours** of manual data formatting per week.

HUGHES COMMUNICATIONS INDIA

Software Development Intern

Gurugram, India

June 2024 – August 2024

- **Launched** a full-stack web application using Flask, SQL, JavaScript, HTML and Vanilla CSS to provide real-time monitoring and control of **10,000+** nationwide terminals, leading to a **30% faster incident response time**.
- **Devised** scalable Python algorithms and Bash scripts to process and analyze billions of rows of network telemetry data, **slashing query times by 75%** and dramatically accelerating internal analysis workflows.

PROJECTS

SOULSCAPE AI MENTAL WELLNESS JOURNAL

December 2024

Tech Stack: Python, Flask, Gemini 2.0, Firebase (Firestore, Authentication), Google Cloud Platform

- Built a full-stack AI wellness platform that provided real-time emotional analysis and personalized mindful activities, **boosting user engagement by 40%** in beta testing.
- Engineered a scalable backend on GCP and Firebase, ensuring robust data persistence for all user data; **authored a technical article on this architecture featured by the official Google Cloud Community on Medium**.

CLOUD INTEGRATED IOT ALARM CLOCK

August 2024

Tech Stack: C/C++ (Arduino), ESP8266, Dart, Flutter, AWS IoT Core

- Integrated an end-to-end IoT smart alarm system, integrating a custom hardware device (Arduino/ESP8266) with a cross-platform Flutter mobile application for seamless user control.
- Leveraged AWS IoT Core and Lambda to implement cloud-native features, including remote device management, sleep pattern analytics, and real-time push notifications for **over 50 active users**.

CLARITYX: AI-POWERED BUSINESS ASSISTANT

October 2023

Tech Stack: Python, Hugging Face (Mistral-7B), Qdrant (Vector DB), Streamlit, LangChain

- Created a full-stack RAG assistant using Streamlit to analyze complex financial documents and autonomously generate strategic insights.
- Improved query relevance and efficiency by **35%** by optimizing the NLP pipeline with Mistral-7B and advanced embedding strategies.

ACHIEVEMENTS

- **Amazon ML Summer School '24:** Selected as one of the top candidates from **70,000+ applicants** for Amazon's invite-only, month-long machine learning bootcamp.
- **Honourable Mention, Google "BuildNBlog" Event '24:** Awarded for technical excellence in developing an AI wellness application using the Gemini API.
- **Top 0.01% Performer, NPTEL:** Ranked **1st out of 7,419 students** with a perfect score in the 'Conservation Geography' course, demonstrating rapid mastery of a new domain.
- **Senior App Developer, Google Developer Student Club:** Led technical workshops for **500+ students** and optimized the club's recruitment process, reducing hiring time by **25%**.
- **Mentor, GirlScript Summer of Code '24:** Guided a team of **20+** developers in open-source practices, reviewing and merging **50+ pull requests** to enhance project features and code quality.
- **Subject Matter Expert, Chegg Inc.:** Authored expert solutions for **50+** complex problems in core Computer Science topics (DSA, DBMS), maintaining a **90% +** quality rating.