

AYUSH PAL SINGH

+91 9956622833 — ayushpalsingh2002@gmail.com — ayushpalsingh — AyushPalSingh — ayushpalsingh

Education

Indian Institute of Technology, Patna

– M.Tech. in Artificial Intelligence — Grade: 8.31/10

July 2024 – May 2026

Dr APJ Abdul Kalam Technical University, Lucknow

– B.Tech. in Computer Science and Engineering — Grade: 8.48/10

July 2020 – June 2024

Technical Skills

- **Languages:** C, C++, Python, SQL, JavaScript.
- **Frameworks & Tools:** HTML, CSS, Git, Redis.
- **Operating Systems:** Linux (Ubuntu), Windows Server.
- **Subjects:** Data Structure, Algorithms, Databases, Artificial Intelligence, Operating System, Wireless Networks, Object-Oriented Programming and System Design.

Projects

Hybrid Ensemble of ML Models

Spring' 23

- Boosted accuracy to 90% for diabetes prediction using a hybrid ensemble of models like Logistic Regression, Naive Bayes, and SVM.
- Increased model performance by 20% through hyperparameter tuning and the use of SMOTE to address data imbalance.
- Colab, Python, Numpy, Pandas, scikit-learn, imblearn.

Lift Simulation using Semaphore

Autumn' 22

- Designed a lift simulation system, utilizing semaphores and mutex locks for process synchronization, successfully managing lift movements across 10 floors.
- Ensured 100% error-free operation, preventing concurrency issues between users and lifts.
- C/C++, Semaphores, Mutex Locks.

Resume Parser and Matcher

Autumn' 21

- Developed a Resume Parser Matcher using Python, SpaCy, and Flask for automated JD matching.
- Achieved 95%+ accuracy in resume matching with optimized skill extraction and fast lookup.
- NLP (SpaCy), Regex, Flask, Data Structures, Transformers.

Internship

Project Associate at Indian Institute Of Management, Lucknow

June' 23

- Managed a process re-engineering project to improve and consolidate end-to-end service processes; restructured communication flow among 10 departments and cut down paperwork by 75%.
- Collaborating with a cross-functional team to ensure alignment with educational standards and user requirements.
- Led the customization of an online grading system, addressing feedback from over 100 users; enhanced user satisfaction scores to above 90% while ensuring compliance with educational standards throughout implementation phases.

Positions of Responsibility

- **General Secretary:** Enigma BBDEC, Lucknow.
- **Innovation Lead:** Google Developers Student Club BBDEC, Lucknow.
- **Event Manager:** Geeks for Geeks Student Chapter BBDEC, Lucknow.

Achievements

- **2nd Position:** Babu Banarasi Das Tech Expo.
- **GATE'24:** Achieved All India Rank 1399 (out of 123,967 candidates) in GATE Computer Science.
- **Cleared:** Harvard's Aspire Leader Program.
- **1st Position:** GFG Coding Contest.
- **CBSE HSC'17:** Secured Rank 1 in CBSE Board HSC Examination with a perfect CGPA of 10.

Certifications

- Mastering SQL Server certification with a score of 92% conducted by Udemy.
- Google cloud carrier practitioner conducted by Google .