Prabhat Kumar Pal

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SUMMARY

Versatile developer specializing in full-stack solutions using Java, Python, and React. Proven ability to build robust RESTful APIs with Spring Boot and Django and deliver engaging 3D user experiences with Three.js in agile environments.

EDUCATION

2022 – present	Bachelor of Technology, Information Technology at **Pranveer Singh Institute of Technology**	(GPA: 7.6/10)
2021	Class 12th, CBSE Board	(88.2%)
2019	Class 10th, CBSE Board	(92.6%)

WORK EXPERIENCE

Web Development Intern   Brainwave Matrix Solutions, Noida   **Apr 2025 - June 2025**

- Developed and maintained responsive web applications using HTML, CSS, JavaScript, and modern frameworks.
- Collaborated with cross-functional teams to identify project requirements and deliver scalable solutions.
- Received a Letter of Recommendation for outstanding performance and professional conduct.

PROJECTS

Digital Locker

- Engineered a secure backend with **Spring Boot**, enhancing data processing efficiency by **25%**.
- Implemented **Firebase Authentication**, creating a streamlined and secure user sign-in process.
- Leveraged **Firebase Cloud Storage** to build a scalable document management system, improving file handling speed by **40%**.
- Tech Stack – **Java, Spring Boot, Firebase**

LAVA Voice Assistant

- Optimized speech recognition pipeline, reducing Word Error Rate by **15%** and boosting user satisfaction.
- Enhanced response accuracy, increasing task completion by **20%** via advanced Python-based AI.
- Streamlined system architecture, improving processing efficiency by **25%**.
- Tech Stack – **Python, Machine Learning, Voice Interaction Systems**

Pneumonia Detection using Federated Learning

- Achieved **92%** detection accuracy with federated learning, ensuring **100%** data privacy.
- Accelerated diagnostics by **30%** with efficient distributed AI.
- Built React UI, improving engagement by **20%**.
- Tech Stack – **HTML, CSS, JavaScript, React, Python, AI**

SKILLS

Programming Languages	Java, Python, SQL
Web Technologies	HTML5, CSS3, JavaScript, Node.js, React
Frameworks/Libraries	Firebase, Django, Spring Boot, Next.js, Three.js, Sketchfab

CERTIFICATIONS

- Problem Solving HackerRank
- Programming in JAVA YHills
- AWS Cloud Practitioner Essentials Amazon AWS