Dev Pratap Singh

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Education

Bachelor of Technology(Information Technology) **2021 - 2025**
KIET Group of Institutions (AKTU) *CGPA: 7.78*

Senior Secondary (PCM) **2019 - 2021**
Dayawati Modi Academy (CBSE) *Percentage: 81.6*

Matriculation **2017 - 2019**
Priyanka Modern School (CBSE) *Percentage: 89.8*

Experience

Capgemini **Sept 2025 - Present**
Software Engineer

- Built and optimized data pipelines using Python and PySpark for large-scale data processing.
- Developed complex SQL queries and procedures for data extraction, transformation, and reporting.
- Automated workflows and integrated CI/CD pipelines to improve deployment efficiency.

ServiceNow **April 2024 - May 2024**
System Administrator Intern

- Completed virtual internship as a ServiceNow Certified System Administrator.
- Managed incident and change requests using ServiceNow ITSM tools.
- Configured automated workflows and dashboards, improving operational efficiency by 30.
- Simulated IT Ops support, handling incidents and root cause analysis.

Projects

Fitness Application |*Python (Flask), React.js, PostgreSQL, RabbitMQ, OAuth 2.0, Gemini API* **Feb 2025 - May 2025**

- Built a full-stack fitness tracking application using Flask-based REST APIs, React.js frontend, and PostgreSQL for persistent data storage.
- Designed modular backend services and implemented asynchronous communication using RabbitMQ for non-blocking background processing.
- Implemented secure authentication and authorization using OAuth 2.0 and JWT to protect APIs and enable role-based access control.
- Integrated Gemini AI API to generate personalized fitness recommendations, following a scalable and CI/CD-ready architecture.

Foliar Disease Detection |*Python, Machine Learning, Deep Learning* **March 2025 - Nov 2024**

- Developed a leaf disease detection system using machine learning and deep learning techniques to accurately classify and diagnose multiple foliar diseases from leaf images.
- Performed image preprocessing and feature enhancement using OpenCV to improve disease detection accuracy and model performance.
- Built an interactive desktop interface using Tkinter with FileDialog integration, enabling users to upload images and receive real-time disease predictions and treatment recommendations.
- Conducted extensive testing and evaluation on a curated dataset of labeled leaf images, achieving high classification accuracy and supporting early disease diagnosis.

Technical Skills and Interests

Languages: Java, Python, SQL, JavaScript.
Frameworks / Technologies: Flask, Kafka, Spring Boot, React.js, RabbitMQ.
Databases: PostgreSQL, Oracle.
Libraries ML Stack: NumPy, Pandas, Matplotlib, Machine Learning, Deep Learning.
Tools & Platforms: GitHub, IntelliJ IDEA, VS Code, Docker.

Leadership / Extracurricular

- Extra curricular involvement and played kind of leading position. Currently working as a managing assistant for college fashion club.
- Worked as a student coordinator to plan the batch's freshmen celebration (2022–2026).