



PUNIT KUMAR

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SUMMARY

I am a student driven by a passion for solving complex challenges and creating impactful solutions. Keen to develop innovative systems that optimize efficiency and scalability. Recognized for a collaborative mindset, strong leadership abilities, and a commitment to personal and professional growth.

TECHNICAL SKILLS

- Java
- Python
- AWS
- MySql
- MongoDB
- Power BI
- HTML/CSS
- Azure
- Git and Github
- Data Analysis and Visualisation
- Scikit-learn

EDUCATION

Bachelor of Technology

Aug 2023 - Present

Lovely Professional University, Jalandhar, Punjab

- CGPA: **8.69**
- Specialization in Artificial Intelligence and Data Engineering

Sr Secondary School

April 2022 - May 2023

St. Dominics Sr. Secondary School, Mathura, UP

- Percentage: **88.3%**
- Gold in Relay 200m rounds
- Gold medal in basketball in inter school.

PROJECTS

LEARNING MANAGEMENT SYSTEM

Technology: Python, MySQL, Tkinter

- Developed an intuitive learning management system to streamline course, grade, and attendance tracking for students and educators.
- Designed as a team project to enhance practical knowledge and deliver a functional solution for educational institutions.

CROP YIELD PREDICTION SYSTEM

Technology: Python, Azure, Scikit-learn, PySpark, Databricks, Gemini API, Github pipeline

- Developed a dynamic data pipeline to ingest data from GitHub to Azure Data Lake Storage Gen2
- Preprocessed and cleaned large datasets using Databricks and PySpark
- Conducted data analysis using big data tools to identify key factors affecting crop yield
- Trained a machine learning model to predict crop yield based on processed data
- Implemented an end-to-end data engineering workflow integrating data ingestion, processing, analysis, and prediction

HEALTHCARE DATA ANALYSIS IN INDIA

Technology: Python, NumPy, Pandas, Seaborn, Matplotlib

- Analyzed nationwide healthcare data to uncover trends in disease outbreaks, healthcare access, and population demographics.
- Utilized advanced data visualization to present actionable insights, supporting strategic improvements in public health.

REAL-TIME CHAT APPLICATION

Technology: HTML/CSS, Flask, SocketIO, MongoDB

- Developed a real-time chat app using Flask as the backend framework and Socket.IO for real-time bi-directional communication
 - Integrated MongoDB to store and manage chat messages persistently
 - Implemented user presence features including join and leave notifications
 - Enabled multi-user interaction within shared chatrooms
 - Designed and deployed a clean, responsive UI for cross-device compatibility
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ADDITIONAL INFORMATION

- **Extracurricular:** Open Source Contributor, Volunteering for Environmental, Video Editor, Basketball Player
- **Languages:** English, Hindi, Punjabi
- **Certifications:**
 - Microsoft certified: Azure Data Fundamentals (DP-900)
 - IBM machine learning
 - IBM Data Engineering
 - Deep learning: Generative AI for everyone
 - Geeks for Geeks: DSA in Python