

PIYUSH KUMAR

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CAREER OBJECTIVE

Aspiring multidisciplinary MCA candidate with a strong foundation in Python, C++, Data Structures, and System Design, seeking opportunities across diverse technology domains. Possesses strong problem-solving skills, a process-driven mindset, and the ability to design scalable, efficient, and reliable systems.

EDUCATIONAL QUALIFICATION

Master of Computer Applications November 2024 – May 2026
Presidency College, Bangalore
Bangalore City University | CGPA: Pursuing

Bachelor of Science April 2021 – May 2024
Seshadripuram First Grade College, Bangalore
Bangalore City University | CGPA: 9.03/10.00

BSEB, Class XII March 2019 – March 2021
Krist Raja High School, Bettiah, Bihar | 70.0%

BSEB, Class X March 2018 – March 2019
Krist Raja High School, Bettiah, Bihar | 80.0%

Relevant Coursework: Data Structures and Algorithms (C++), Probability and Statistics in CS (Python), Introduction to CS II (C++), Linear Algebra with Computational Applications (Python)

CERTIFICATIONS

- **Java Programming Certification** – Great Learning April 2023
- **Python Programming Certification** – NPTEL April 2024
- **C, C++ Programming Certification** – NPTEL October 2024
- **Oracle Cloud Infrastructure AI Foundations** – ORACLE August 2025

WORK EXPERIENCE

LYD Technologies November 2023 – May 2024
Software / Hardware Engineer – Bangalore, Karnataka

- Developed a dynamic website using WordPress, HTML, CSS, and JavaScript to help employees identify tools and view specifications.
- Gained hands-on experience in hardware installation, system maintenance, and troubleshooting.
- Integrated hardware with software systems for seamless data flow across embedded platforms.
- Optimized algorithms and improved performance using Data Structures and C++.

PROJECTS

Spotify Data Analysis (EDA) July 2024 – August 2024

- **Python Libraries:** Pandas, NumPy, Matplotlib, Seaborn
- Performed EDA on Spotify dataset to explore user listening behavior and track characteristics.
- Conducted data cleaning, wrangling, and visualization to reveal audio feature correlations.
- Analyzed trends like tempo, energy, and valence to understand recommendation dynamics.

Personalized Fitness Diet Recommendation System [Repo]

- **Python Libraries: Pandas, NumPy, Scikit-learn, Flask** July 2025 – August 2025
- Built an ML-powered system to predict daily calorie intake and generate personalized diet/workout plans based on user profile and fitness goals.
- Applied Gradient Boosting Regressor and Random Forest Classifier for accurate calorie and workout recommendations.
- Designed a nutrient-balancing algorithm to optimize carbs, proteins, and fats distribution.
- Built a responsive HTML/CSS/JavaScript front-end for interactive result visualization.

AI-Powered Trend Analysis and Automation Dashboard [Repo]

- **Python Libraries: Pandas, Streamlit, Matplotlib, Requests (APIs)** Jan 2026 – Feb 2026
- Built an AI-driven system to collect, analyze, and summarize trending topics using API-based data pipelines.
- Developed an interactive dashboard with Streamlit and visualized insights using Matplotlib.
- Processed and analyzed data using Pandas, enabling real-time and historical trend tracking.
- Automated report generation (DOCX) and scheduling with logging for efficient, end-to-end workflow automation

Automated Data Reporting System (Repo)

- **Python Libraries: Matplotlib, OpenPyXL, ReportLab** Feb 2026 – March 2026
- Built an automated data reporting system using Python to streamline analysis and reporting workflows.
- Processed Excel data with Pandas/OpenPyXL and generated visual insights using Matplotlib.
- Automated PDF report creation with ReportLab and enabled scheduled execution via Task Scheduler.
- Implemented logging for monitoring, improving efficiency and reducing manual effort.

TECHNICAL SKILLS

Languages :	C, C++, Python, Java, SQL, Data Structures
Tools/Frameworks :	Django, Flask, TensorFlow, PyTorch, Docker, Kubernetes
Concepts :	Operating Systems, Artificial Intelligence, Machine Learning, Encryption & Decryption, Computer Networks (TCP/IP, HTTP/HTTPS, DNS, Spoofing)
Extra :	System Design (Scalability, REST APIs, Microservices)

EXTRA-CURRICULAR ACTIVITIES

- Participated in AWS-based hackathon, gaining hands-on cloud experience June 2025
- Attended Deep Learning seminar on AI and neural networks Jan 2025
- Civil Defense volunteer promoting emergency preparedness April 2023
- Volunteered at Techno Fest for logistics coordination Feb 2022

LEADERSHIP

- Managed a 30-member team during a one-day program featuring alumni engagement and technical workshops.
- Led my team in conducting a blood donation drive promoting health awareness..
- Managed team involvement in a Road Safety Educational Training Program

ACHIEVEMENTS

- Secured 1st place in 3000m long-distance at district athletics
- Won 1st position in Shot Put (10 December 2020).
- Awarded 1st Place in PPT Presentation at St. Francis College. May 2022 – May 2023

PERSONAL DETAILS

Date of Birth:	03 August 2003
Nationality:	Indian
Languages Known:	English, Hindi, Kannada
Hobbies:	Reading Books, Cooking, Sports
References:	Available upon request