

VIVEK BAJPAI

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CAREER OBJECTIVE

Passionate Computer Science undergraduate skilled in software development, data structures, and full-stack technologies. Seeking to contribute to impactful software solutions while leveraging problem-solving and teamwork skills in a collaborative environment.

EDUCATION

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| Pranveer Singh Institute of Technology, Kanpur | Uttar Pradesh, India |
| • Bachelor of Technology – Computer Science and Engineering; Percentage: 74.7% | 2022 - 2026 |
| Bakshi Memorial Public School, Lalganj | Uttar Pradesh, India |
| • Intermediate – CBSE Science; Percentage: 75.6% | 2020 - 2022 |
| Bakshi Memorial Public School, Lalganj | Uttar Pradesh, India |
| • High School – CBSE; Percentage: 76.4% | 2019 - 2020 |

SKILLS

- **Languages:** C++, Java, Python, SQL
- **Web Development:** HTML, CSS, JavaScript, React, Express.js, Node.js
- **Tools/Platforms:** VS Code, Git, GitHub, Jupyter Notebook, Postman
- **Core Subjects:** Data Structures, Algorithms, Object-Oriented Programming, DBMS

PROJECTS

- **Diabetic Retinopathy Detection: Tech Stack: React, Python, PyTorch, Flask, Keras (Ongoing)**
 - Developing a deep learning model using **EfficientNet-B3 with PyTorch**, currently focusing on **improving model accuracy**.
 - Implementing **data preprocessing and augmentation** strategies to enhance generalization and effectively manage **class imbalance**.
 - Building scalable **training pipelines** for efficient experimentation and reproducibility.
 - **Designing the architecture for a Flask-based API to serve predictions; UI integration planned for future implementation.**
 - Optimizing inference for **CPU/GPU performance**, ensuring faster and reliable predictions prior to deployment.
- **Pharma Care: Tech Stack: React, Node.js & Express.js, MongoDB, JWT (December 2023)**
 - Developed a **full-stack MERN application** to digitize handwritten prescriptions, directly improving readability and reducing errors for pharmacists.
 - Implemented a **secure JWT-based authentication system** with a predefined medicine database, reducing manual typing errors.
 - **Designed and built a responsive, interactive User Interface with robust form validation to streamline prescription creation for doctors.**
 - Enhanced pharmacist workflow by delivering **clean, typed prescriptions**, minimizing misinterpretation and boosting operational efficiency.
 - Ensured **scalable backend architecture** with RESTful APIs, enabling smooth integration and future system expansion.

CERTIFICATIONS

Mastering Data Structures and Algorithms using C and C++ – Udemy	Issued: May 2024 Certificate Link
Learn C++ Programming – Beginner to Advanced (Deep Dive in C++) – Udemy	Issued: February 2025 Certificate Link
Databases and SQL for Data Science – Coursera	Issued: March 2025 Certificate Link

ACHIEVEMENTS

- Five-Star problem solver on HackerRank
- Earned a 500-day streak badge on LeetCode.
- Solved 500+ problems on LeetCode