

Alok Ranjan

Graduate Trainee Engineer | AI & Data Science Enthusiast | Full-Stack Developer

Email: ranjanalok2468@gmail.com | Mobile: (+91) 6207921456 | LinkedIn: [alok-ranjan](#) | GitHub: [alokrj](#)

SUMMARY

Motivated and adaptable Software Engineer with a strong foundation in full-stack development, data structures and system design, and API Integration. Eager to tackle real-world challenges by building scalable, cloud-enabled, business-driven digital solutions using agile methodologies, while continuously learning in a dynamic tech environment.

EDUCATION

Bachelor of Technology – Computer Science & Engineering <i>Punjab Technical University (IKGPTU) CGPA: 7.67/10</i>	2021-2025 Punjab, India
Intermediate – Science <i>DKC Residential Public School CBSE 67.6%</i>	2018-2020 Bihar, India
Matriculation <i>Pragya Punj Public School CBSE 83.8%</i>	2017-2018 Bihar, India

PROFESSIONAL EXPERIENCE

- Artificial Intelligence Intern** 08/2025 – 10/2025 | Bengaluru, Karnataka (Remote)
Infosys
 - Engineered a dual-modal AI diagnostic system using **PyTorch**, **Transformers**, and **Scikit-learn**, achieving **94%** accuracy in disease classification; this system performs both text-based (NLP) and image-based (CV) detection to provide immediate diagnoses.
 - Developed a full-stack, end-to-end application by building a **Python (FastAPI)** backend and a responsive **React.js** frontend, delivering real-time diagnoses in **seconds** and improving model inference time by **30%**.
- Data Science & Analytics Intern** 07/2024 – 09/2024 | Bengaluru, India
Zidio Development Pvt. Ltd.
 - Leveraged Python libraries (Pandas, NumPy, Matplotlib, Scikit-learn, XGBoost) for comprehensive data analysis and predictive modeling, achieving 85% accuracy on classification tasks, boosting business decisions by 25%, and reducing data processing time by 30%.
 - Created interactive dashboards with Power BI and Tableau, enabling real-time KPI monitoring and improving stakeholder decision-making efficiency.

PROJECTS

- Plant Doc - AI Plant Disease Detection System**
 - Engineered a dual-modal diagnostic AI system, using **PyTorch**, **Transformers**, and **Scikit-learn** to perform both text-based (NLP) and image-based (CV) analysis, achieving **94% accuracy** in disease classification.
 - Deployed the AI models via a high-performance **Python (FastAPI)** backend, optimizing the inference pipeline to reduce model size by **25%** and deliver real-time diagnoses under **2 seconds**.
 - Developed a full-stack, responsive application using **React.js (Vite)** and **Tailwind CSS** to present **diagnoses, confidence scores, and actionable treatment recommendations**, providing **critical decision support** to gardeners and farmers.
- Customer Segmentation Analysis**
 - Performed customer segmentation** on **50,000+ records** using **Python, Pandas, NumPy, and Scikit-learn**, improving data quality through preprocessing and reducing noise for better model performance.
 - Applied K-Means and Hierarchical Clustering**, achieving **85% accuracy** and enhancing segmentation precision by **25%**, enabling more effective customer targeting.
 - Deployed the model on a **Flask web app** and **visualized insights**, with **Matplotlib & Seaborn**, delivering actionable results that increased customer retention by **15%**.
- AI Resume Analyzer**
 - Developed an AI-powered Resume Analysis Platform** using **React, React Router, TypeScript, Zustand, and Puter.js**, enabling seamless **authentication**, secure **resume upload/storage**, and **serverless database integration**.
 - Implemented intelligent job–resume matching** with **AI evaluations** to generate **ATS scores** and **custom feedback** tailored to job listings, improving **candidate-job alignment**.
 - Designed and deployed a responsive, reusable UI** with **Tailwind CSS** and **shadcn/ui**, ensuring **cross-device compatibility, modern user experience, and scalable component architecture**.

SKILLS

- Programming & Concepts:** Python, C++, DSA, OOP, Basic System Design
- Web Stack:** React.js, Node.js, Next.js, Tailwind CSS, Git, RESTful APIs, Postman
- Databases & Tools:** MySQL, MongoDB, Power BI, Tableau, Google Cloud, Excel, VS Code, GitHub, Jupyter Notebook, PowerPoint
- Data & ML:** Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow
- Professional Strengths:** Problem Solving, Teamwork, Communication, Debugging, Time Management

CERTIFICATIONS

- AI Primer & Generative AI – *Infosys*
- Data Science & Analytics Internship – *Zidio Development Pvt. Ltd.*
- Machine Learning with Python – 6 weeks *summer Training* – *NIELIT Haridwar*
- React – *Top performer in 6 weeks Training* – *Internshala*