

Alok Ranjan

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

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

PROFESSIONAL EXPERIENCE

1. Artificial Intelligence Intern	08/2025 – 10/2025 Bengaluru, Karnataka (Remote)
<i>Infosys</i>	
<ul style="list-style-type: none">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%.	
2. Data Science & Analytics Intern	07/2024 – 09/2024 Bengaluru, India
<i>Zidio Development Pvt. Ltd.</i>	
<ul style="list-style-type: none">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

1. Plant Doc - AI Plant Disease Detection System
<ul style="list-style-type: none">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.
2. Customer Segmentation Analysis
<ul style="list-style-type: none">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%.
3. AI Resume Analyzer
<ul style="list-style-type: none">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

<ul style="list-style-type: none">Programming & Concepts: Python, C++, DSA, OOP, Basic System DesignWeb Stack: React.js, Node.js, Next.js, Tailwind CSS, Git, RESTful APIs, PostmanDatabases & Tools: MySQL, MongoDB, Power BI, Tableau, Google Cloud, Excel, VS Code, GitHub, Jupyter Notebook, PowerPointData & ML: Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlowProfessional Strengths: Problem Solving, Teamwork, Communication, Debugging, Time Management
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CERTIFICATIONS

<ul style="list-style-type: none">AI Primer & Generative AI – <i>Infosys</i>Data Science & Analytics Internship – <i>Zidio Development Pvt. Ltd.</i>Machine Learning with Python – 6 weeks summer Training – <i>NIELIT Haridwar</i>React – Top performer in 6 weeks Training – <i>Internshala</i>
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