Abheek Rai

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EDUCATION

Jaypee University of Information Technology   Solan, HP
B.Tech in Bioinformatics   *Sep 2022 – Present*

St. Joseph's School   Sonbhadra, UP
High School Diploma   *Graduated 2022*

EXPERIENCE

Machine Learning Intern   *July 2024 – Dec 2024*
iNeuron.ai   *Remote*
- Developed and optimized machine learning models using scikit-learn, Python (pandas, NumPy), and R for data preprocessing, model evaluation, and visualization, improving16 reducing processing time by 40%.
- Applied data analysis techniques with dplyr and ggplot2 to handle large datasets, improving model accuracy by 15%.

Contributing Developer   *Mar 2024 – Present*
OpenDev Collective (Open-Source Initiative)   *Remote*
- Refactored legacy React codebase for a task automation tool, reducing bundle size by 30% and enhancing scalability for high-traffic applications.
- Implemented CI/CD pipelines with GitHub Actions and Docker, streamlining deployments and cutting release time by 50%.
- Reviewed and merged 15+ pull requests, ensuring code quality and alignment with best practices in agile development.

Secretary   *June 2023 – Present*
National Service Scheme (NSS)   *Solan, HP*
- Led team of 20+ in conducting village surveys and planning outreach programs, impacting 150+ residents and honing leadership in collaborative environments.

PROJECTS

Shinsee: Movie Rental Platform | *React, Node.js, Django, PostgreSQL, REST APIs*   *March 2024 – Present*
- Engineered full-stack application for seamless online subscriptions and content rentals, made for handling 1,000+ simulated user queries with 99% uptime.
- Designed scalable backend with Django and PostgreSQL, integrating payment APIs to support high-volume transactions similar to e-commerce platforms.

DNA Count Web App | *Python, Flask, HTML/CSS/JS*   *Aug 2024*
- Built responsive web app for nucleotide sequence analysis, reducing manual processing time by 60% through efficient algorithms and user-friendly interface.

BioCompute Nexus | *React, JavaScript, CSS, API Integration*   *July 2024*
- Created modular web portal aggregating bioinformatics tools (e.g., GenBank APIs), ensuring responsive design and cross-device compatibility for 500+ potential users.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C++, SQL, HTML/CSS, R
Frameworks/Libraries: React, Node.js, Django, Flask, scikit-learn, pandas, NumPy
Tools: Git, Docker, VS Code, PyCharm, GitHub Actions, REST APIs
Other: Machine Learning, Data Analysis, Scalable Web Development, Cloud Services (Learning AWS/Azure)

ACHIEVEMENTS & EXTRACURRICULARS

Delivered full-stack solutions using React and Node.js for clients, boosting workflow efficiency and retention by 20%.

Semi-finalist, Novartis Biotechnology Leadership Camp Hackathon (selected from 500+ teams).

Participant, Manipal Biotech Hackathon and multiple coding challenges.

2-Star Coder on CodeChef; Silver Medalist in Inter-College Table Tennis.