Aaditya kumar sah
Machine Learning Engineer

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Self-taught AI & full-stack engineer with expertise in machine learning, MERN stack, Next.js, and Python. Founder & CEO of RoyalReefsNepal. Built and deployed 500+ AI/ML models and full-stack applications, optimizing performance and user experience. Passionate about tech innovation and entrepreneurship.

AREA OF EXPERTISE

- Artificial Intelligence & Machine Learning
- Neural Networks, ANN, CNN, RNN, NLP
- Full-Stack Web and App Development
- Project Development & Deployment

KEY ACHIEVEMENTS

- **Developed 100+ AI & ML Projects | Created and deployed models for BioMedical, agriculture, Business Analysis and Education**
- **Founder & CEO of RoyalReefsNepal | Built and led a tech startup focusing on AI innovation and full-stack development.**
- **Youngest Tech Innovator | Recognized for exceptional contributions in AI and web development at a young age.**

PROFESSIONAL EXPERIENCE

AI & Full-Stack Engineer   - Royal Reefs Nepal   **Jan-2023 - FEB 2024**

- Built and deployed 60+ AI/ML models and full-stack apps, led client projects
- Lead projects, managed clients, and guided a small dev team

ML & FULL-STACK DEVELOPER   - LeetCode, HackerRank, Kaggle, GitHub   **Feb 2022 – Present**

- Built, optimized, and deployed multiple ML models (TensorFlow / PyTorch) integrated into full-stack apps (Next.js / Node / MongoDB).
- Developed native mobile apps using React Native — handled UI, offline sync, and REST/GraphQL integrations
- Regular participant in ML competitions and hackathons on Kaggle & college events; focused on model accuracy, deployment, and latency optimization
- Strong problem-solving record — practice advanced DS & algorithms daily and apply them to system design and model optimization.
- Built internal tools and automation scripts (data pipelines, evaluation dashboards) to speed up experimentation and deployment.

Founder & CEO   -RoyalReeNepal   **sept 2023 - Present**

- - Secured multiple clients within the first few months of launch.
- - Scaled client projects to significant online reach and engagement.
- - Designed and optimized e-commerce platforms, improving performance and user experience by 30%.
- - Gained hands-on experience in frontend development, UI/UX design, and client collaboration.
- - Managed a small development team — hiring, training, and leading projects from concept to deployment.
- - hired and fired bunch of people
- - Demonstrated strong dedication to work and client satisfaction, including negotiating and closing major deals through persistence and communication.

Founder & CEO   Gen-Tech   **March 2023 - Dec 2024**

- Built this out of pure curiosity for how AI could reshape learning. It was a real-time two-way communication and competitive
- exam prep app featuring a focus mode called Zen Mode, complete with MCQ revision, reports, and ranking systems.
- Coded everything myself — from the backend logic to the UI.
- It was super fun to build and taught me a lot about AI integration, product design, and user engagement.
- Sadly, like most passion projects, it didn't last long — had to pause development before the full launch due to limited
- resources and bandwidth.

PROJECTS:

📈 **Stock Market Prediction System:** Designed an LSTM-based system to predict stock prices using historical data, sentiment from news, and social media trends for smarter trading decisions.

🩺 **Real-Time Medical Diagnosis Assistant:** analyzes medical images (X-ray, MRI) and predicts multiple diseases simultaneously with uncertainty estimation using CNN ensembles. Could be integrated into telemedicine apps.

🌐 **AI-Powered E-Commerce Recommender System:** Built a personalized recommendation engine using collaborative filtering and deep learning to suggest products to users in real-time. Integrated with a mock e-commerce platform for testing user engagement.

ADDITIONAL INFORMATION

- **Languages:** English, Nepali, Hindi, Bangali
- **Certifications:** Python for Data Science & AI – Kaggle, Deep Learning with TensorFlow & PyTorch – Self-Paced / Projects
- **Education:** +2 from Arniko College BRT, Grade 3.8
- **Awards/Activities:** HOFs, hackathon wins, built 100+ AI/ML projects, love open source, and always tinkering with new tech.