RAMAN SUBEDI

AI/ML Engineer | Visual AI & Imaging Specialist | BIT Graduate

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📍 Kathmandu, Nepal

PROFILE

Motivated Information Technology graduate with strong foundations in Artificial Intelligence, Machine Learning, and software engineering. Specialized in developing intelligent systems with hands-on experience in full-stack development, data preprocessing, and model optimization. Currently deepening expertise in Visual AI, Computer Vision, and Deep Learning through intensive self-study and practical projects. Fluent in English, German, Nepali, and Hindi. Seeking to advance knowledge in medical imaging and visual AI applications through the EMJM Imaging program.

EDUCATION

Bachelor of Information Technology (BIT)

2019 – 2023

Tribhuvan University, Nepal

Strong foundation in software engineering, algorithms, data structures, and system design with focus on data analysis and application architecture

TECHNICAL SKILLS

Programming: Python, C++, Dart, SQL, Bash

AI/ML Frameworks: Scikit-learn, Pandas, NumPy, Matplotlib

Machine Learning: Neural Networks, Feature Engineering, Model Optimization, Statistical Analysis

Development: Flutter, REST APIs, Full-Stack Development

DevOps: Docker, Jenkins, Git, CI/CD, Linux Administration

Data Engineering: ETL Pipelines, Data Preprocessing, Database Management

Languages: English (Fluent), German (Fluent), Nepali (Native), Hindi (Fluent)

PROFESSIONAL EXPERIENCE

Flutter Development Intern (Distinction)

Apr 2024 – Jun 2024

Numa Digital Farm Pvt. Ltd., Biratnagar, Nepal

- Developed complete online ticketing web application using Flutter and Dart as Bachelor's thesis project
- Designed user-centric UI/UX with focus on accessibility and seamless user experience

- Integrated RESTful APIs for real-time data synchronization and dynamic content delivery
- Implemented secure authentication systems and managed full development lifecycle
- Collaborated with cross-functional teams in agile environment, conducting comprehensive testing cycles
- Completed internship with Distinction recognition for outstanding technical performance

PROJECTS & RESEARCH

Machine Learning Model Development | Self-Directed Research Ongoing

- Building end-to-end ML solutions focusing on practical AI engineering and data-driven decision making
- Developed predictive models using Python, Scikit-learn, Pandas, and NumPy with comprehensive preprocessing pipelines
- Exploring neural network architectures and deep learning fundamentals for image processing applications
- Conducted rigorous model evaluation using cross-validation, performance metrics, and statistical analysis
- Created reproducible ML workflows documented in Jupyter Notebooks

Technologies: Python, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Jupyter DevOps Infrastructure & CI/CD Automation

Ongoing

- Designed automated deployment pipelines using Jenkins and Git for continuous integration
- Containerized applications with Docker ensuring consistent cross-environment deployment
- Configured Linux-based server infrastructure and implemented automated testing workflows
- Applied infrastructure-as-code principles for maintainable and scalable systems

Technologies: Docker, Jenkins, Git, Linux, Bash, CI/CD Pipelines

RESEARCH INTERESTS & GOALS

Primary Interests: Computer Vision, Medical Imaging, Deep Learning, Visual AI, Image Processing, Data Engineering

Academic Goals: Pursue advanced research in medical imaging and visual AI applications to develop intelligent systems for healthcare diagnostics and image analysis. Particularly interested in the intersection of deep learning and medical imaging for scalable AI-driven diagnostic tools.

COMMUNITY ENGAGEMENT

Volunteer – Youth Education Initiatives, Biratnagar, Nepal

Active contributor to local educational programs promoting technical literacy and digital skills among youth, mentoring aspiring developers and fostering innovation