RAMAN SUBEDI

**AI/ML Engineer |
DevOps Enthusiast |
Fullstack Developer |
BIT Graduate**

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ABOUT ME

I'm a passionate Information Technology graduate specializing in Artificial Intelligence, Machine Learning, and DevOps engineering. With a strong foundation in software development and full-stack application development, I build intelligent systems and scalable infrastructure solutions.

Currently expanding my expertise through intensive self-study and hands-on projects while preparing for advanced studies in AI/ML and Data Engineering. I believe in the power of technology to solve real-world problems and am always eager to collaborate on innovative projects.

What drives me: Curiosity, continuous learning, and the desire to contribute to cutting-edge AI research and applications.

EDUCATION

Bachelor's Degree in Information Technology (BIT)
Tribhuvan University, Nepal | 2019 – 2023
Strong academic foundation in software engineering, data structures, algorithms, and system design with focus on data analysis, backend development, and full-stack application architecture.

EXPERTISE

Core Skills

Programming & Development
Python • C++ • Dart • SQL • Bash Scripting

Artificial Intelligence & Machine Learning

Scikit-learn • Pandas • NumPy • Neural Networks • Data Preprocessing • Feature Engineering • Model Optimization • Supervised Learning • Unsupervised Learning • Statistical Analysis

DevOps & Infrastructure

Docker • Jenkins • Git • CI/CD Pipelines • Linux Administration • Automation • Containerization • Infrastructure as Code • Server Management

Web & Full-Stack Development

Flutter • HTML5 • CSS3 • REST APIs • RESTful API Integration • Backend Integration • Web Services • Cross-Platform Development

Data Engineering

SQL • Data Preprocessing • ETL Pipelines • Data Pipeline Development • Database Management

Languages

🇬🇧 **English** – Fluent (Professional working proficiency)
🇩🇪 **German** – Fluent (Strong command)
🇳🇵 **Nepali** – Native
🇮🇳 **Hindi** – Fluent

PROFESSIONAL EXPERIENCE

Flutter Development Intern (Distinction)

Numa Digital Farm Pvt. Ltd. | Biratnagar, Nepal
April 2024 – June 2024

Successfully completed a 3-month intensive internship focusing on full-stack mobile application development. Completed with **Distinction** recognition for outstanding performance and technical expertise.

Key Contributions:

- Developed a complete online ticketing web application using Flutter and Dart from conception to deployment
- Designed and implemented user-centric UI/UX for seamless event browsing and ticket purchasing
- Integrated RESTful APIs for real-time event updates and dynamic content delivery
- Implemented robust user authentication and secure payment processing workflows

- Managed full development lifecycle including requirements analysis, design, coding, testing, and deployment
- Collaborated effectively with cross-functional teams in an agile development environment
- Conducted comprehensive testing cycles ensuring application stability and performance

Technologies: Flutter • Dart • REST APIs • User Authentication • Agile Methodologies • Full-Stack Development

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FEATURED PROJECTS

🎓 Final Thesis Project: Online Ticketing Web Application

April 2024 – June 2024 | Flutter Development Internship Project

Developed a comprehensive online ticketing platform as my Bachelor's thesis project, addressing real-world challenges in event management and ticket booking systems.

Project Overview:

- Created a user-friendly cross-platform application enabling event enthusiasts to browse, select, and purchase tickets effortlessly
- Implemented seamless integration between frontend and backend components for enhanced usability and accessibility

Highlights:

- Designed intuitive user interface with focus on user experience and accessibility
- Integrated RESTful APIs for real-time event data synchronization and updates
- Developed secure authentication system protecting user data and transactions
- Implemented comprehensive testing strategy ensuring reliability and performance
- Applied full-stack development principles from database design to frontend implementation
- Demonstrated ability to deliver production-ready applications meeting industry standards

Impact: Successfully delivered a fully functional ticketing platform that demonstrates practical application of software engineering principles and full-stack development capabilities.

Tech Stack: Flutter • Dart • REST APIs • Database Management • Authentication Systems • Agile Development

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🤖 Machine Learning Model Development

Ongoing | Self-Directed Research
📂 View on GitHub

Building end-to-end machine learning solutions with focus on practical AI engineering and data-driven decision making.

Highlights:

- Developed predictive models using Python, Scikit-learn, Pandas, and NumPy
- Implemented comprehensive data preprocessing pipelines and feature engineering strategies
- Explored neural network architectures and deep learning fundamentals
- Conducted rigorous model evaluation using cross-validation and performance metrics
- Created reproducible ML workflows with Jupyter Notebooks
- Applied statistical analysis techniques for data-driven insights

Impact: Gained hands-on experience in the complete ML lifecycle from data collection to model deployment, preparing for advanced research in AI/ML.

Tech Stack: Python • Scikit-learn • Pandas • NumPy • Matplotlib • Seaborn • Jupyter

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⚙️ DevOps Infrastructure & CI/CD Automation

Ongoing | Infrastructure Engineering
📂 View on GitHub

Designing automated deployment pipelines and scalable infrastructure solutions for modern application development.

Highlights:

- Built automated CI/CD pipelines using Jenkins and Git for continuous integration and deployment
- Containerized applications with Docker for consistent cross-environment deployment
- Configured Linux-based server infrastructure simulating production environments
- Implemented automated testing workflows ensuring code quality and reliability
- Applied infrastructure-as-code principles for maintainable and scalable systems
- Optimized deployment processes reducing time-to-production

Impact: Streamlined deployment processes and gained practical DevOps experience applicable to real-world enterprise scenarios.

Tech Stack: Docker • Jenkins • Git • Linux • Bash • YAML • CI/CD

📊 Additional Projects

Explore more on my GitHub: github.com/Raman21676

Continuously expanding my portfolio with:

- Data visualization and analytics projects
- Algorithm implementations and optimization
- Web scraping and automation tools
- RESTful API development
- Machine learning experiments and research
- Data pipeline development

WHAT I'M WORKING ON

🎯 Current Focus:

- Advanced machine learning techniques and neural networks
- Deep learning fundamentals and applications
- Data engineering and ETL pipeline development
- Cloud computing and distributed systems
- Open source contributions
- Preparing for Master's programs in AI/ML and Data Engineering

📚 Currently Learning:

- Deep Learning specializations
- Advanced data engineering practices
- Cloud platforms (AWS/Azure/GCP)
- Computer Vision and NLP foundations
- Big Data technologies (Apache Spark, Hadoop)
- Advanced database systems and optimization

COMMUNITY & LEADERSHIP

Volunteer – Youth Education Initiatives
Biratnagar, Nepal | Ongoing

Active contributor to local educational programs promoting technical literacy and digital skills among youth. Passionate about mentoring aspiring developers and fostering innovation in the community.

INTERESTS & GOALS

Research Interests: Deep Learning • Computer Vision • Natural Language Processing • Data Engineering • Reinforcement Learning • MLOps • Big Data Analytics

Career Goals: Pursuing Master's degree in AI/ML and Data Engineering to deepen theoretical knowledge and contribute to cutting-edge research while building practical applications that solve real-world problems. Particularly interested in the intersection of data engineering and machine learning for scalable AI systems.

Always open to: Collaboration opportunities • Research projects • Innovative ideas • Networking with like-minded professionals

LET'S CONNECT

I'm always interested in discussing AI/ML projects, data engineering challenges, DevOps best practices, collaboration opportunities, or just connecting with fellow tech enthusiasts!

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🌐 **Website:** www.ramansubedi.com

"Technology is best when it brings people together and solves real problems."

Last Updated: January 2026
Status: Open to opportunities & collaborations