

ASHISH THAPA

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HIGHLIGHTS

- 4+ years of experience building **scalable, production-grade** full-stack applications using modern software engineering practices.
- 2+ years of academic and **project-based experience** in AI/ML, big data processing, and applied machine learning solutions.
- Proven ability to modernize legacy systems, improve reliability, and **reduce manual operations**.
- Committed to delivering digital solutions that make a lasting difference in people's lives and communities.

EXPERIENCE

Software Developer Al Ghawali Manpower Supply	Jan 2025 - Present <i>Sohar, Oman</i>
<ul style="list-style-type: none">• Rebuilt core systems by recovering lost code and modernizing legacy applications; delivered scalable workflow platforms including a unified admin panel for visa processing, workforce tracking, and accounting, reducing manual work by 70%.• Established a production-ready engineering environment with GitHub workflows, CI/CD automation, and optimized single-host deployments, cutting release time by 70% and enabling reliable, on-time delivery.	
AI Software Developer (Consulting Project) Botree Inc	Jan 2024 - Apr 2024 <i>Ontario, Canada</i>
<ul style="list-style-type: none">• Led end-to-end delivery of an AI learning platform, managing requirements, architecture, and team execution while engineering a production-grade RAG system using Django, Pinecone, LangChain, and OpenAI.	
NodeJs Developer Proshore Nepal Pvt. Ltd.	May 2021 - Sept 2023 <i>Kathmandu, Nepal</i>
<ul style="list-style-type: none">• Architected scalable full-stack systems and modernized backend services and AWS Lambdas, improving reliability and reducing production incidents by 20%. Automated key workflows through third-party API integrations and optimized CI/CD pipelines, cutting manual work by 70% and release time by 40%.• Mentored developers, led SCRUM ceremonies, and enforced high engineering standards through rigorous code reviews.	
NodeJs Developer Esignature Pvt. Ltd	Dec 2019 - May 2021 <i>Kathmandu, Nepal</i>
<ul style="list-style-type: none">• Built full-stack applications with optimized architecture and database design, ensuring scalability and maintainability.• Developed ETL pipelines and conducted unit/API testing with Mocha and Chai, improving reliability and test coverage by 25%.	
Software Trainee Palmmind IT Consultancy	Oct 2018 - July 2019 <i>Kathmandu, Nepal</i>
<ul style="list-style-type: none">• Delivered end-to-end web applications and intelligent chatbots for Banking and Commercial clients at this early-stage startup, leveraging the MEAN stack, Dialogflow, and Loopback	

PERSONAL PROJECTS

- **Flask Server Pipeline - Backend deployment** pipeline for a Flask API using Docker, Terraform, and GitHub Actions. **Technologies: Flask, Docker, Terraform, AWS EC2, GitHub Actions**
- **AI & Machine Learning** - Collection of academic and personal projects covering reinforcement learning, NLP, classification, regression, computer vision, and other data science tasks. **Technologies: Python, Scikit-learn, TensorFlow, PyTorch, OpenCV, NLP libraries**

TECHNICAL SKILLS

Languages	Python, JavaScript, TypeScript, SQL
Libraries and Frameworks	NodeJs, Express, React, NextJs, NestJs, Mocha & Chai, Tailwind CSS
Databases	Postgres, MySQL, MongoDB, Redis
Cloud & DevOps	AWS (EC2, S3, IAM, RDS), Docker, Kubernetes, Git, CI/CD
Big Data/AI/ML	PowerBI, Kafka, Spark, Hugging Face, TensorFlow, Scikit-learn, PyTorch

EDUCATION

Post Graduate in Big Data Analytics , Georgian college, Barrie, Canada	Sept 2024 - Apr 2025
Post Graduate in Artificial Intelligence , Georgian college, Barrie, Canada	Sept 2023 - Apr 2024
Bachelor of Computer Engineering , Tribhuvan University, Lalitpur, Nepal	Sept 2014 - Oct 2018