

ANISH SHRESTHA

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Skills

Languages: Python, JavaScript, TypeScript, SQL

Technologies/Frameworks: Linux, Git, GitHub, Figma, NextJS, React, Svelte, GraphQL, Django, Flask, Redis, Celery, Sklearn, PyTorch, Tensorflow/Keras, Pymc, JIRA

Infrastructure/Cloud: Docker, Terraform, GCP/AWS, Github Actions

Experience

AlayaCare

May 2022 – Present

Senior Software Engineer

Sydney, Australia

- Engineered and streamlined backend features for Home Care Package (HCP) invoicing, claiming, smart reconciliation, and budget management resulting in a 30% reduction in customer support tickets.
- Spearheaded the implementation of auto travel time feature in a cloud-based SAAS environment, increasing efficiency for clients by 25% in their scheduling and payroll workflow.
- Pioneered a core product delivery team, driving technical design and strategic value for Australian clients to maintain 100% compliance with Australian standards

Fusemachines

Feb 2020 – Nov 2021

Machine Learning Engineer (TIME Magazine)

Kathmandu, Nepal

- Streamlined the data pipelines that provide brand audits, insights, and strategic recommendations that drive business outcomes at a fraction of the cost.
- Consolidated scattered data from multiple platforms into a single OLAP system to analyze and get better insights.
- Collaborated with the Data VP and a Ph.D. to streamline the deployment of the Machine learning pipeline for viral content prediction achieving 90% accuracy
- Developed automated data reporting systems, reducing report generation time by 75% and providing actionable insights for product strategy development.

Machine Learning Engineer (Hospital For Special Surgery)

- Engineered an ML-driven solution for implant supply chain optimization, analyzing 15,000+ cases to predict patient implant needs with over 90% accuracy.

Machine Learning Engineer (Fuse AI)

- Collaborated with Machine Learning Ph.D. to re-structure and re-create the best machine learning and deep learning academic courses which are being taught in Fuse Classroom with tens of thousands of students worldwide.
- Worked on a core ML and NLP algorithm implementation at the Maths level to better explain the working mechanics of the algorithm to students.

Xcellab

Oct 2019 – Feb 2020

Frontend Engineer

Lalitpur, Nepal

- Front end development of a crypto exchange platform.
- Architected the deployment of JavaScript backend and frontend services resulting 40% increase in deployment workflow.
- Engineered the best practices for user authentication and secured trading management resulting in better user experience and customer satisfaction.

Projects

Text-to-Image Generative AI with Advanced Image Analysis | *Python, GCP, Stable Diffusion*

- Developed an AI tool using Stable Diffusion for generating high-quality images from text, integrating custom models for age/gender detection and image captioning, attracting 1500 users within the first few months
- Designed and implemented an end-to-end architecture, optimizing performance through rigorous testing and fine-tuning, leading to hundreds of images generated daily and a 60% reduction in costs through efficient resource management
- Achieved high user satisfaction and financial sustainability with enough paid users to cover costs, continuously improving the product based on feedback and collaboration with cross-functional teams for a seamless user experience

Knee Transplant Size Estimation via Patient Demographics | *Python, sklearn, AWS*

- Researched and developed the best possible ML solution in collaborations with Ph.D. to predict implants required for a primary total knee replacement with an overall accuracy above 90% .

GrowBot AI (Viral content forecast) | *Python, GCP, Vertex AI*

- Built an AI model that gives a list of predictions of upcoming viral news given the previous history with an overall accuracy above 90%, so that sales/marketing team can focus more on those news.

Education

Lord Buddha Education Foundation (APU)

Bachelor of Science in Computer Science

2016 – 2019

Kathmandu, Nepal

Certifications

TensorFlow Developer Certification: <https://bit.ly/3i46gp3>

Rasa Developer Certification: <https://bit.ly/3iFJ7KP>

Rasa Advanced Deployment Certification: <https://bit.ly/3vmJaOk>

Sequence Models by deeplearning.ai: <https://bit.ly/3as2XSG>

Mathematics for Machine Learning: <https://bit.ly/3CJ3LC6>

Machine Learning by Stanford Online: <https://bit.ly/2wBuTFa>

Getting started with Machine Learning by AWS: <http://bit.ly/2xfCPw0>

Leadership / Professional Development

Google I/O Extended

Panelist

June 2024

NSW Teachers Federation Conference Centre, Sydney

- Panel Discussion on What does the future of AI hold for us

Google Developer Student Clubs — Google Labs

Speaker

May 2024

Google HQ, Sydney

- Delivered a presentation at the GDSC Google labs event, sharing insights on leveraging open-source text-to-image generative AI technology for building practical applications.
- Discussed the high-level workings of text-to-image generative AI models and demonstrated an end-to-end side project with a user base of over 1500, deployed in production.
- Provided practical guidance on productionizing AI projects using Google Cloud Platform (GCP) resources, emphasizing cost-effective deployment strategies.

Google Developer Group — Google Cloud

Speaker

April 2024

Google Developer Group, Sydney

- Delivered a comprehensive talk at the GDG event, showcasing the Dreamery project – a generative AI platform for transforming selfies into artwork.
- Discussed the architectural decisions behind Dreamery, including leveraging a distributed service approach over a monolithic design, applying clean code architecture principles, and implementing domain-driven design.
- Demonstrated cost-effective deployment strategies by hosting backend services on Cloud Run and leveraging serverless GPU instances for Stable Diffusion XL, resulting in a 90% cost reduction.
- Highlighted additional cost optimization techniques, such as right-sizing resources, which led to a 60% reduction in overall GCP costs.
- Conducted a live demo, exhibiting Dreamery's capabilities by transforming an example selfie into professional headshots, showcasing the power of generative AI.

Fuse AI Training

AI Instructor

Nov 2020 – Dec 2020

Fusemachines

- AI training provided to associate and trainee ML Engineers.
- Managed the whole schedule and curriculum by in collaboration with other instructors.
- Led the end-to-end ML pipeline development to deployment workshop.