

ANISH SHRESTHA

✉ connect@anyesh.me  [linkedin.com/in/anyesh](https://www.linkedin.com/in/anyesh)  github.com/Anyesh

Education

Lord Buddha Education Foundation (APU)

Bachelor of Science in Computer Science

2016 – 2019

Kathmandu, Nepal

Experience

AlayaCare

Backend Engineer

May 2022 – Present

Sydney, Australia

- Building SAAS for home-based care agencies.
- Founding member of a core product delivery team, providing strategic value for Australian clients while driving technical design and collaborating closely with North American Engineering teams.

Fusemachines Nepal

Machine Learning Engineer (TIME Magazine)

Feb 2020 – Nov 2021

Kathmandu, Nepal

- Collaborated with the best Data Team of the top US news magazine to streamline the data pipelines that provides brand audits, insights, and strategic recommendations that drive business outcomes at a fraction of the cost.
- Worked on various big data platforms of the news magazine ecosystem to ingest the scattered data in a single OLAP platform 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.
- Collaborated with the senior product manager to prepare aggregated data reports that are used to get product insights and better strategy development.

Machine Learning Engineer (Hospital For Special Surgery)

- Collaborated with senior Data Scientists and Ph.D. of the US number 1 Orthopedics to build a solution for transforming their implant supply chain by determining a patient's implant needs and share it further upstream to manufacturers to optimize inventory and day-of operations.
- Using data from 15,000+ cases, we built an implant size prediction algorithm that utilizes manufacturers' implant data (e.g., product dimensions, design), patient demographics (i.e., sex at birth, height, weight, date of birth), and historical surgeon usage data to output a case-specific implant order.
- Machine learning models (Ridge Regression and Neural Network Classification) were built to predict implants required for a primary total knee replacement with an overall accuracy above 90%.

Machine Learning Engineer Associate

- 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.
- Collaborated with senior NLP Engineers to create the best NLP course focusing on the NLP starters.
- Involved in the core Machine Learning algorithm implementation and academic course development by analyzing the level of the students.

Xcellab

Frontend Engineer

Oct 2019 – Feb 2020

Lalitpur, Nepal

- Front end development of a crypto exchange platform.
- Worked with Devops and senior engineers to secure and manage the architecture for deployment of JavaScript backend and frontend services.
- Collaborated with the security teams on the best practices for user authentication and secured trading management.

Projects

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

Feb 2021 – July 2021

- 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, sklearn, AWS*

Feb 2021 – July 2021

- 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.

Technical Skills

Languages: Python, JavaScript, SQL, NoSQL, HTML/CSS, TypeScript

Developer Tools: VS Code, Google Cloud Platform, AWS

Technologies/Frameworks: Linux, Git, GitHub, Docker, Figma, NextJS, React, GraphQL, Django, Flask, Sklearn, Pytorch, Tensorflow/Keras, Pymc3

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 Machin 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 / Extracurricular

Google Developer Group

April 2024

Speaker

Google Developer Group, Sydney

- During my talk, I shared the story of my Dreamery project - a generative AI platform that lets users transform selfies into artwork.
- I covered the architectural decisions that went into building Dreamery.
- leveraging a distributed service approach rather than a monolithic design.
- Applying principles of cleancode architecture and domain-driven design.
- Deploying backend services on cloudrun and stablediffusion XL on serverless GPU to reduce cost by 90%.
- There was also a live demo where I showcased Dreamery in action - transforming an example selfie into professional headshots.

Fuse AI Training

Nov 2020 – Dec 2020

AI Instructor

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.