Subhojit Ghimire

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Professional Summary

AI/ML Developer with 2 years of industry experience and a strong academic foundation in **Computer Science & Engineering**. Proven expertise in production-grade backend development, scalable machine learning automation, and Generative AI applications. Core contributor to **JioBrain**, India's first AI/ML platform with 5G integration, delivering scalable solutions for business use. Track record of delivering production-ready systems independently and in collaborative, cross-functional teams.

Education

Bachelor of Technology (B.Tech.) in Computer Science & Engineering   July 2019 – June 2023
National Institute of Technology (NIT) Silchar, Assam, India ↗
- CGPA: 8.79/10.0 ↗

Professional Experience

AI/ML Developer   July 2023 – July 2025
Jio Platforms Limited (JPL), Gurugram, Haryana, India ↗
- Core contributor to the foundational development and evolution of JioBrain ↗, a pioneering enterprise AI/ML platform integrated with 5G technology.
- Engineered Python-based backend systems to enhance ML automation and develop Generative AI capabilities, streamlining processes for corporate clients across diverse sectors.
- Worked on cross-functional ML delivery pipelines, including model training, testing, and deployment, achieving accuracy score upto 90%.
- Co-contributed to two patents granted by the Indian Patent Office for innovations in network service quality and fault management.

Patents & Publications

System and Method for Determining Quality of Service Metrics in a Network
- Indian Patent Office | Patent No: 567255

Method and System for Dynamic Correlation with Fault Management
- Indian Patent Office | Patent No: 566410

TRAVID: An End-to-End Video Translation Framework
- ACL Anthology | In Proceedings of IJCNLP-AACL 2023: System Demonstrations ↗

Research & Internship Experience

Research Intern (SN Bose Summer Internship)   June 2022 – July 2022
National Institute of Technology (NIT) Silchar, Assam, India ↗
- Spearheaded the research and development of a Python-based video translator, later named *TRAVID* ↗, designed to translate content while preserving lip synchronisation and performing initial voice cloning.
- Built a full-fledged web application using Flask for real-time video translation with language switching and lip synchronisation, making the tool accessible online to users.
- Collaborated effectively with supervisors and fellow interns in a research-focused team environment, contributing to the project's foundational codebase.

Technical Skills

Programming Languages: Python, C++, C, HTML, CSS, JavaScript
AI/ML & Data Science: Scikit-learn, Torch, TensorFlow, Pandas, NumPy, MLFlow, Anyscale Ray, LangChain, Transformers
Frameworks & Tools: Flask, Git, Canva, Adobe Photoshop
Operating Systems Comfort: Windows, RHEL, Ubuntu, Mint
Language Proficiency: Nepali (Native), English (Fluent), Hindi (Fluent)

TOEFL iBT Score 106 ⬈

Reading: 25 – **Listening:** 30 – **Speaking:** 25 – **Writing:** 26

Highlighted Projects

AutoML Playground ⬡ Repo
- An interactive web application for automated machine learning, including Feature Engineering, Time Series Forecasting, Regression, Classification, and Outlier Detection.

AI Voice Clone & Dubbing Pipeline ⬡ Repo
- An end-to-end Python script that automatically transcribes audio, translates it to a different language, and then re-synthesizes the audio in the target language while preserving the original speaker's voice.

AI Document Analysis System ⬡ Repo
- A web-based interface powered by a RAG pipeline, incorporating model finetuning, rigorous benchmarking, and a flexible architecture that supports both local open-source models and powerful cloud APIs.

Leadership & Extracurricular

Designer & Co-founder | Yearli Yearbooks (NITS Startup) ⬈
- Co-managed a campus startup, designing and delivering yearbooks to hundreds of graduating students.
- Led design and managed marketing and operations.

Specialization Certificate
- Machine Learning, DeepLearning.AI ⬈
- Machine Learning, University of Washington ⬈
- Introduction to Generative AI Learning Path, Google Cloud ⬈
- Essential Skills in Adobe Photoshop, Adobe ⬈

School Level Achievements
- House Sports Captain, School Prefect, Club Vice-president, Recipient of numerous excellence awards, and participant/place-holder in various inter- and intra-school events.

Community Moderator
- Managed and moderated online communities on Reddit and Discord, developing skills in conflict resolution, effective communication, and user engagement.