

Ayush Subedi

<https://www.linkedin.com/in/ayush-subedi/>

<https://ayushsubedi.github.io/>

Email : ayush.subedi@gmail.com

Phone : +977-9860909101

SUMMARY

- 13+ years of experience in data science, analytics, machine learning, and AI-driven product development, with a focus on driving innovation and impactful solutions.
- Proven expertise in building and managing high-performing multidisciplinary teams, delivering solutions to address complex, cross-functional challenges.
- Extensive experience in R&D, including the design and implementation of advanced data systems, development of high-priority datasets, and leveraging AI/ML for transformation.
- Passionate problem solver skilled in tackling unstructured and non-standard mathematical challenges, with a strong history of successful project delivery.
- Effective leader and communicator, adept at stakeholder collaboration, user research, and fostering inclusivity through mentorship and capacity-building initiatives.

EXPERIENCE

- **Cloudfactory** Kathmandu, Nepal
Staff Data Scientist *Jul 2021 - Present*
 - Led a team of five data scientists for R&D and deployment in machine learning, statistical modeling, algorithm design, simulation, and visualization. The areas of work include AVLidar, Cloud Workforce Performance, Network Theory, Fraud Detection, Unsupervised Learning, and Ad-hoc Data Forensics.
 - Led a team of ten data engineers, BI developers, data analysts, and data scientists to deliver product and platform data needs (dashboarding, pipelines, warehousing, modeling, analysis, discovery, and compliance).
 - Built successful AI-driven sandbox ecosystem and architecture for Learning and Development of cloud workforce for complex labeling jobs, directly resulting in the company acquiring several million dollars plus contracts.
 - Developed automated ground truth validation algorithms and synthetic datasets for autonomous vehicle use cases, saving the company thousands of hours in human time.
 - Built Worker's Performance Profile, a standardized, performance score, currently being used for performance-based work reservation by the machine learning annotators, and also as the dependent variable for all ML endeavors.
- **Code For Nepal** Kathmandu, Nepal
Chief Executive Officer *Oct 2021 - Present*
 - Leading a program with partnership from one of the biggest Data Science educators in the world (Datacamp), to provide scholarships to 1000+ students/professionals in Nepal (worth \$1,000,000).
 - Fostering a culture of data science, community, and participation in data-driven projects in Nepal. Led multiple community-based open-source projects successfully.
- **Correlation One** New York, USA
Data Science Teaching Assistant (Remote) *Mar 2022 - Aug 2022*
 - Teaching Assistant of Data Science (Excel, Tableau, Python, and SQL) with Amazon Career Choice Data Analytics program, designed to "Transfer lives of Amazon Associates with Data careers".
 - Trained 50+ students directly, several of whom left Amazon warehouses to find a career in Data.
- **World Bank** Kathmandu, Nepal
Data Scientist *Jun 2019 - Jun 2021*
 - Developed a proxy-based statistical literacy indicator for the country of Nepal. 100K news articles from major Nepali media publications were collected and analyzed, and the results were published in a World Bank report.
 - As part of the open data initiative, consulted the government of Nepal (FCGO) on best practices for the publication of machine-readable datasets of government expenses and revenue.
 - Collaborated with the Facebook data team to analyze "Usage and Movement data" to assess the impacts of The 2019 Nepal Floods, and create vulnerability maps for future risk reduction.
 - Conducted Nepal Data Literacy Program by developing course materials and instructing Python, Machine Learning, Tableau, Statistics, and Survey Methodologies to 200 industry experts originating from different fields (Academics, CSO, Media, Entrepreneurs, Managers, NGOs).

- **The British College** Kathmandu, Nepal
Visiting Faculty of Data Science *Sep 2019 - Nov 2021*
 - Developed curriculum for Business Intelligence for Nepal, Data Science, and Machine Learning courses, and taught five semesters with an average class size of about 26 students.
- **BP Eye Foundation** Kathmandu, Nepal
Principal Machine Learning Researcher *Feb 2021- May 2021*
 - Built models to predict diabetic retinopathy and glaucoma (using 100k fundus images) with accuracy, sensitivity, and recall score of over 90 percent. The app is being used in six hospitals in remote locations in Nepal.
- **Moonlit Solutions** Kathmandu, Nepal
Chief Analytics Officer, Co-founder *Dec 2018 - Apr 2021*
 - Cofounded the company to provide data services from Nepal, serving dozens of national and international clients.
 - Developed Banking Anomaly and Fraud Detection Machine Learning Model POC with 98% accuracy and F1 score for a Silicon Valley startup.
 - Deployed forecasting models (Bayesian and ARIMA) to forecast future sales, and other statistical models to increase hospital service efficiency, for BP Eye Hospital.
 - Defined the underlying tech architecture leveraging the Blockchain and AI technology for Trove, a privacy-focused, encrypted Web3 bookmark manager, that generates text summaries of articles.
- **Tootle** Kathmandu, Nepal
Principal Data Science Consultant *Dec 2018 - Jan 2021*
 - Provided various strategies, analyses, data models, and algorithms (verticals, resource optimization, robust algorithm design for efficiency, churn analysis, market clustering, etc.).
 - Reached operational profitability, while having enough capital to sustain marketing costs to keep old customers and drivers, and acquire new ones.
- **Tootle** Kathmandu, Nepal
Chief Technology Officer *Aug 2015 - Dec 2018*
 - Launched the popular ride-sharing platform based on motorbikes in January of 2017 in the capital city of Nepal.
 - Wrote the first line of code and the MVP and successfully received seed investors.
 - Hired 35 engineers and staff, and scaled the platform to 10,000 rides per day.
 - Successfully received a grant funding of £500,000 from GSMA (50% matching).
- **Three60** Kathmandu, Nepal
Principal Software Engineer *Oct 2013 - Nov 2018*
 - Delivered several successful products for Stanford University, Oxfam Nepal, UNESCO Nepal, Seeds of Empowerment, and the Government of Nepal.
- **Lees Tax City** Indianapolis, USA
Technology Operations Manager *Jun 2013 - Sept 2013*
 - Facilitated technology (websites, in-location servers, databases, and company POS machines) to process thousands of tax processing in multiple locations.
- **The Lorian** Iowa, USA
News Editor, Graphic Designer *Dec 2011 - July 2013*
 - Led the editorial team to produce accurate and engaging news content while designing visual materials to enhance user engagement and streamline content publication workflows.
- **Unicef Campus Initiative** Iowa, USA
Marketing Manager *Jan 2010 - Dec 2011*
 - Directed marketing campaigns and awareness initiatives, leveraging digital platforms, user research, and analytics to optimize strategies and engage diverse audiences effectively.

EDUCATION

- **Georgia Institute of Technology** Atlanta, GA
Master of Science in Analytics (Computational/ML Track); GPA: 3.91 *2021 – 2023*
- **Loras College** Dubuque, IA
Bachelor of Science in Computer Science and Mathematics; GPA: 3.84 *2009 – 2013*

PUBLICATIONS

- **AIST 2023 · March 17, 2023** Use of telemedicine and artificial intelligence in Eye and ENT: a boon for developing countries
- **World Bank Group · Jul 1, 2020** Use of Data in the Private Sector of Nepal : The Current State and Opportunities in Finance, Education, and the Media
- **IEEE 2015 · Dec 16, 2015** Use of ICT in Classrooms in Nepal; A study of Student-Centered Learning using ICT

PROGRAMMING SKILLS

- **Languages:** Python, SQL, Spark, R, Java **Technologies:** AWS, GenAI, Tableau, Pytorch, DB, Warehouse