Ayush Subedi

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SUMMARY

- 12 years of experience in data science, analytics, machine learning, product development, and entrepreneurship.
- Experienced in building teams from the ground up, and leading to solving cross-cutting, company-wide data science and machine learning problems.
- A penchant for solving unstructured and non-standard mathematical problems. A history of successful delivery of complex problems.
- Attentive self-starter, great communicator, leader, teacher, personally empowered, and team player.

EXPERIENCE

- **Cloudfactory**   Kathmandu, Nepal
  Staff Data Scientist   *Jul 2021 - Present*
    - Leading a team of four data scientists for R&D and deployment in machine learning, statistical modeling, algorithm design, simulation and visualization. The area of work include AVLidar, Cloud Workforce Performance, Network Theory, Fraud Detection, Unsupervised Learning, and Ad-hoc Data Forensics.
    - Leading a team of seven data engineers, BI developers, data analysts, and data scientists to deliver product and platform data needs (dashboaring, pipelines, warehousing, modeling, analysis, discovery and compliance).
    - Built successful AI driven sandbox ecosystem and architecture for Learning and Development of cloud workforce for complex labelling jobs, directly resulting in the company acquiring several million dollars plus contracts.
    - Developed automated ground truth validation algorithms for autonomous vehicle use cases, saving the company thousands of hours in human time.

- **Code For Nepal**   Kathmandu, Nepal
  Strategic Advisor   *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 Educator   *Mar 2022 - Aug 2022*
    - Teacher 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, Survey Methodologies to 200 industry experts originating from different fields (Academics, CSO, Media, Entrepreneurs, Managers, NGOs).

- **The British College**   Kathmandu, Nepal
  Visiting Professor of Data Science   *Sep 2019 - Nov 2021*
    - Developed curriculum for Business Intelligence for Nepal, Data Science, and Machine Learning courses, and taught five semesters in total with 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 percentage. 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 (Baysian 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 summary of articles.

- **Tootle**   Kathmandu, Nepal
  Senior 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, Founding Team   *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, and company POS machines) to process thousands of tax processing in multiple locations.

EDUCATION

- **Georgia Institute of Technology**   Atlanta, GA
  Master of Science in Analytics; 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, PySpark, R, Java   **Technologies**: AWS, Tableau, Flask, Scikit, Pytorch, Jira