

AROGYA KOIRALA

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EDUCATION

University of California, Berkeley

2021 - Present

Master of Information Management and Systems

Berkeley, CA

Coursework: Quantitative Research Methods, Qualitative Research Methods, User Interface Design and Development, Data Structures and Analytics

National Institute of Technology, Warangal

2010 - 2014

B.Tech in Mechanical Engineering

Warangal, India

SKILLS

Java (Spring Framework, Android), JavaScript (React, Redux, Node, D3JS, Mapbox, Leaflet, Observable, etc.), R, Python, SQL and similar DB querying languages, Elastic Search, Bash, Docker, OpenStreetMap tools, QGIS

EXPERIENCE

UC Berkeley Graduate Division

2021 - Present

Graduate Student Researcher

Berkeley, CA

- Collect project requirements and translate them into user-driven dashboard designs;
- Develop visualizations and interactive dashboards that summarize graduate student data in a creative and non-technical manner for presentation on the Graduate Division website;
- Transform, test and validate data and reporting functionality.

Kathmandu Living Labs

2016 - 2021

Tech and Innovation Lead

Kathmandu, Nepal

- Oversaw the implementation of all technological activities within the organization: worked directly with the organization's executive chairman to translate the KLL's priorities and strategic goals into technical next steps; ensured smooth collaboration between the tech team and other functional units within KLL, viz. research, design and geospatial teams; contributed in all works as a full stack developer, data scientist, user researcher, technical project manager, recruiter, and mentor.
- Led the tech team's adoption of a leaner, scrum based approach for iteratively developing and delivering its tech products. Changes include transitioning towards using frameworks (Django, Spring Framework) and architectures (MVVM) on web and mobile projects, mandating the use of kanban boards, and switching to virtualized and automated product delivery using dev-ops tools such as Kubernetes and Docker.
- Reviewed project progress and managed weekly and monthly activities of the 6 member tech team; managed communication with stakeholders, and delivered reports that summarize technical work, learnings, and next steps on a regular basis.

Mu Sigma Business Solutions

2014 - 2016

Decision Scientist

Bangalore, India

- Helped the Pricing and Strategy team of a leading Canadian retail company understand the impact of its in store promotions: used linear regression to estimate baseline sales and promotional lift of ~500K items across 40 stores; automated the analytical process; led a 5 member team to design and develop a responsive three-tier web application that allowed category managers across the country to consume insights generated on a quarterly basis.
- Helped the Enterprise Data Analytics team of a leading US bank understand how consumer balance diminishes over time: used time series clustering techniques on anonymized account balance data to identify six commonly occurring patterns (profiles) of balance diminishment; used k-NN classification to categorize ~20 million customers into said profiles; developed a Tableau dashboard to help the data analytics team consume generated insights.

ACHIEVEMENTS

Co-organizer — [Risk and Resilience DAT/Artathon](#)

2020 - Present

Alumnus, US Department of State — [International Visitor Leadership Program](#)

2019

Winner, Best Visual Design — [World Bank & Mapbox VizRisk Challenge](#)

2019

PROJECTS

View a list of select projects at <https://arogyakoirala.github.io>