Kshitij Parajuli

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EXPERIENCE

Engineering Manager, Data Science Platform   Jun 2021 - Current
Thrasio | Remote

- Built the **Data Science/Machine Learning Platform** (DSP) at Thrasio that enables model & data lineage tracking and increases DS productivity while setting best practices for the DS and DSP team to build and productionalize models efficiently using numerous tools including Databricks, MLFlow, and Terraform
- Productionalized and automated novel Data Science pricing, marketing, forecasting and supply chain models unlocking tens of millions of dollars of incremental profit
- Built an **experimentation framework** to run AB Tests split by users as well as cohorts of products that enabled efficient reporting and automated AB test monitoring
- Refactored multiple DS pipelines using **Spark** to decrease runtime from 72+ hours to < 1 hour while decreasing compute cost

Senior Software Engineer II, Machine Learning Engineering   Apr 2020 - Jun 2021
EverQuote | Cambridge, MA

- Designed and implemented a cost-efficient and functional **model development platform** and a notebook solution with scheduling in Kubernetes using JupyterHub, MLFlow, Papermill, Commuter, and Bamboo.
- Built and maintained AWS infrastructure, including EKS clusters, using **terraform** and aided in the adoption of infrastructure-as-code and Kubernetes features like horizontal pod autoscaling in the team.
- Maintained and improved EverQuote's Machine Learning platform supporting **anomaly detection**, **model deployment**, and **multi-armed bandits.** Some major projects resulted in 10x improvement in anomaly detection performance, accurate bandit simulations saving valuable testing time, and improved monitoring and reporting.

Software Engineer I, II & Senior Software Engineer   July 2015 - Apr 2020
TripAdvisor | Boston, MA

- Designed and implemented a platform to deliver real-time machine learning models by utilizing **Kubernetes**, **Docker** and **Jenkins** for CI/CD which enabled models to be deployed to production rapidly, easily and with three 9s of uptime. The ease and reliability increased usage of real-time ML models and models productionalized in the framework generated millions of dollars of incremental revenue.
- Maintained and improved TripAdvisor Experience's **data science platform** built on top of **scikit-learn**, Docker, and Kubernetes which supports all machine learning frameworks. This framework drastically sped up the time it takes for data scientists to build and engineers to productionalize online and offline machine learning models.
- Productionalized and improved machine learning models written in Python that ranged everywhere from feature stores that other models use, to batch prediction jobs, to real-time services that the frontend can call using Docker, Kubernetes, **Prometheus**, **Grafana**, Jenkins etc.
- Built, maintained, and architected the data science platform, which included tools and frameworks to help the data science team build machine learning models.
- Planned and **tech-led** migrations of FlipKey.com into a centralized platform as well as the migration of the website caching technology from memcache to Redis to allow for better monitoring, replication and flexibility
- Worked on Centralized Login unifying the user-base of all TripAdvisor brands with proper handling of PII

Software Engineer Intern and Co-op   Jul 2010 - May 2015
Oracle (formerly Tekelec) | Morrisville, NC

EDUCATION

North Carolina State University | Bachelor of Science in Computer Science   May 2015

- GPA: 3.75/4.0
- Computer Science Ambassador at NCSU (2014), Treasurer of Nepalese Student Association