

Ketan Vijayvargiya

Principal Engineer in Amazon Web Services

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Experience

Amazon Web Services **10/2023 – Present: Principal Engineer in Artificial Intelligence and Machine Learning (Seattle, US)**

I provide technical leadership to following domains:

- Fully-managed IDEs (i.e. integrated development environments) for AI-ML development.
- Machine learning on time-series data.

These span across a suite of AI-ML products:

- **SageMaker Studio**: A single web-based interface for end-to-end ML development.
- **SageMaker Notebooks**: Fully managed notebooks in JupyterLab for exploring data and building ML models.
- **SageMaker JumpStart**: Machine learning (ML) hub with foundation models, built-in algorithms, and prebuilt ML solutions that you can deploy with just a few clicks.
- **Lookout for Metrics**: Automatically detect anomalies within metrics and identify their root causes.

As a technical leader, I am responsible for core technical infrastructure, API design, customer experience and security of these products. Some of my key initiatives include:

- An **open-source project** that aims to simplify ML development for both AWS and other customers.
- Features that make it easier for customers to build Generative AI applications on AWS.
- Influence how **IAM Identity Center** built its **trusted identity propagation** feature such that it served all SageMaker's use cases.
- End-to-end lifecycle for **Lookout for Metrics**: ideate, develop, launch and help find product fit.
- Backend re-architecture of **SageMaker Notebooks**, a six year old product, so that it's setup for success for the next decade.

Amazon **08/2013 – 09/2023: Software Engineer**

Technical leader and software engineer across various organizations:

- **AWS Lambda**: Run code without thinking about servers or clusters.
- Automated marketing across social, e-mail and text channels.
- Competitive monitoring.

Earlier **08/2010 – 07/2013: Software Engineer in Adobe and Snapdeal.**

Education

2006 - 2010 **Bachelors in Computer Science, Delhi College of Engineering**