

SAGAR PATEL

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EDUCATION

New York University

Master of Science, Computer Engineering

New York, NY

May 2022

PES University

Bachelor of Technology, Electrical & Electronics Engineering

Bengaluru, KA

May 2019

EXPERIENCE

Amazon Web Services, Inc.

Seattle, WA

Machine Learning Engineer

July 2022– April 2025

- Designed and implemented scalable cloud-native applications using AWS Lambda, EC2, and DynamoDB, reducing operational costs by 28% for a Fortune 500 client.
- Developed a CI/CD pipeline for microservices architecture using Docker, Kubernetes, and Jenkins, enabling automated deployments with zero downtime.
- Contributed to the launch of Amazon Bedrock by collaborating with cross-functional teams to integrate generative AI APIs into client-facing applications.
- Built RESTful APIs for recommendation engines using Python and Flask, improving response times by 35%.

Pixar Animation Studios

Los Angeles, CA

Machine Learning Engineer Intern

January 2022– May 2022

- Engineered a proprietary tool for efficient storage and rendering of animation dailies using Python and Pixar's tools (RenderMan, Presto). Reduced load times by 8%.
- Developed a distributed system for rendering pipelines using Docker and Kubernetes, ensuring fault tolerance and scalability.

New York University

New York, NY

Data Science Bootcamp Instructor

May 2021– May 2022

- Led a boot camp for over 300 students, developing tailored course plans on machine learning concepts such as supervised/unsupervised learning, deep learning frameworks (TensorFlow, PyTorch), and statistical modeling.
- Mentored group projects on topics like computer vision, NLP, and reinforcement learning to foster academic growth in data science applications.

Unacademy

Bengaluru, KA

Data Scientist

June 2019– August 2020

- Streamlined content ingestion workflows by developing dynamic dashboards with Flask and PostgreSQL, exceeding productivity targets by 150%.
- Enhanced system reliability by implementing monitoring solutions using Prometheus and Grafana.

PROJECTS

NFL Big Data Bowl 2025 (Formation Success Analysis) (Python)

2024

- Designed a football formation analysis tool using Python, pandas, and matplotlib to visualize performance metrics.

Ling-spam Email Spam Filter (Python; SQL)

2022

- Developed a Naive Bayes-based spam filter achieving high accuracy while analyzing resilience against adversarial attacks using Python and SQL.

HACKATHONS

2nd Place – AWS Hackathon NAW 2022

Online, 2022

- Built a recommendation engine using collaborative filtering in Apache Spark. Deployed the system on AWS with a RESTful interface for real-time suggestions.

3rd Place – NYU 2020 COVIDHack Challenge

New York, NY, 2020

- Developed a mobile app leveraging Google Maps data to optimize NYC transit systems during COVID-19.

SKILLS

Experienced: Python, Java, C++, JavaScript (Node.js); AWS (Lambda, EC2, DynamoDB), Azure; Docker, Kubernetes, Jenkins, Terraform; PostgreSQL, MongoDB, DynamoDB; Flask, Django, React.js

Familiar: Java, R; AWS Transcribe, Textract, VPC; Apache Spark, Hive, Hadoop DFS; Speech Recognition, Adversarial NLP; MongoDB, Linux Shell Scripting, CUDA Programming; Distributed Systems Design, API Development, CI/CD Pipelines