SAGAR PATEL

+1 (347) 223-1930 | Seattle, WA | sagarpatel.97dec@gmail.com | github.com/Sagar-Py | linkedin.com/in/sagar-2512

Work Experience

Machine Learning Engineer   July 2022 — April 2025
Amazon Web Services, Inc.   *Seattle, WA*
- Helped launch Amazon Bedrock, contributing to the development and deployment of generative AI foundation models like Titan Text for text generation, summarization, and classification.
- Built and optimized ML solutions for enterprise clients using SageMaker, EMR, and Lambda, leading to $1.7 million cost savings and improved scalability.
- Delivered secure, compliant generative AI workflows with Glue, Clarify, and Data Wrangler, supporting predictive analytics across SaaS/IaaS pipelines. Streamlined MLOps with automated CI/CD and model monitoring pipelines, improving deployment speed and model governance.
- Developed internal Generative AI tooling to automate support workflows, cutting manual effort by over 60%.

Machine Learning Engineering Intern   January 2022 — May 2022
Disney Pixar Animation Studios   *Los Angeles, CA*
- Engineered a proprietary tool for efficient storage and rendering of animation dailies using Python and Pixar's tools (RenderMan, Presto), optimizing loading times by 8%.
- Developed a CI/CD pipeline for generative AI rendering tools with Docker, Kubernetes, and Jenkins, integrated into production workflows for Q2 2024 projects.

Data Science Bootcamp Instructor   May 2021 — May 2022
New York University   *New York, NY*
- 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 involving computer vision, NLP, and reinforcement learning to foster academic growth in data science applications.

Data Scientist   July 2019 — June 2020
Unacademy   *Bengaluru, KA*
- Streamlined operations to exceed targets by 150% within 20 days through dynamic dashboards using Tableau and Python. Enhanced NPS processes, leading to a 10% increase in customer satisfaction by analyzing team performance metrics via SQL-based reporting tools.

Skills

- **Experienced:** Python, PyTorch, TensorFlow, scikit-learn, Keras; Generative AI (LLMs, Summarization), Recommender Systems, Neural Networks, RL, HPO; SageMaker (incl. Bedrock), Docker, Kubernetes, Lambda, CI/CD, Glue, EC2; Feature Engineering, A/B Testing, Statistical Modeling; Hugging Face, OpenCV, OpenAI API, Tableau
- **Familiar:** Java, R, Spark, Hive, Hadoop DFS; AWS Transcribe, Textract, VPC; Speech Recognition, Adversarial NLP; MongoDB, Shell Scripting, CUDA

Education

New York University   New York, NY
Master's of Science, Computer Engineering   *August 2020 — May 2022*

PES University   Bengaluru, KA
Bachelor of Technology, Electrical and Electronics Engineering   *August 2015 — May 2019*

Active Projects

AI Mental Health Assistant, (Prototype Stage)   April 2025 — Present
- Currently developing an AI-driven mental health assistant leveraging LLMs and psychological frameworks to offer context-aware, personalized support through a lightweight, privacy-conscious architecture.
- Working on integrating OpenAI APIs with custom NLP pipelines for emotion recognition, session memory, and dynamic prompt adaptation, enabling empathetic and contextually relevant responses across conversations.