

AAKASH KUMAR TOMAR

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SUMMARY

Master of Science candidate in Data Science, Analytics, and Engineering at Arizona State University with over 2 years of professional work experience in backend development with python and SQL. Looking for full-time job opportunities from May 2026.

EDUCATION

Master of Science in Data Science, Analytics and Engineering

Arizona State University, Tempe, AZ

Graduating May 2026

GPA: 3.78

Bachelor of Science in Computer Science and Engineering

DIT University, India

Aug 2018 - May 2022

GPA: 3.16

TECHNICAL SKILLS

Programming Languages: Python, SQL

Frameworks & Libraries: Django, Flask, Pandas, PySpark, PyTorch, TensorFlow, Keras, Beautiful Soup, Hugging Face, Slack Bolt

Data & ML: NLP (Transformers, ALBERT), Computer Vision (OpenCV, MediaPipe), LLMs, Generative AI, Model Training and Evaluation, Power BI, Tableau

Platforms & Tools: AWS, Docker, Apache Kafka, Apache Spark (PySpark), dbt, PostgreSQL/TimescaleDB, Git, Redis, RabbitMQ, Avro, Schema Registry

Core Practices: REST APIs, Streaming, Caching, Message Queues, WebSockets, Database Design, CRON

Certifications: DataCamp - Professional Data Scientist, DataCamp - Case Study: Analyzing Healthcare Data in Power BI, Udemy - Power BI Data Analyst (PL300), edX - Cloud Practitioner Essentials (IBM)

PROFESSIONAL EXPERIENCE

OODLES TECHNOLOGIES, India: Senior Associate Consultant

May 2022 – August 2024

- Engineered secure Python and Django backend architecture and SQL schemas for a blockchain trading platform to facilitate seamless and secure feature integration.
- Streamlined system performance by reducing database load by 30% and improving API responsiveness through Redis caching and SQL query optimization.
- Developed real-time group chat functionality using WebSockets, increasing user communication efficiency and engagement metrics by 25%.
- Systematized Polygon smart-contract deployments and RabbitMQ notification queuing via CRON jobs, ensuring 100% delivery reliability through automated backend function calls.
- Directed a team and mentored two junior developers to accelerate project delivery by 20% via collaboration.
- Earned three quarterly awards for technical excellence and high-impact contributions to core milestones.

RELEVANT PROJECTS

Digital Assets Analytics Pipeline, Group Project

- Built a real-time market data pipeline using Kraken WebSocket, Kafka (Avro + Schema Registry), and PySpark Structured Streaming.
- Aggregated trades into 1-minute OHLCV candles with event-time windows + watermarking; stored in TimescaleDB/PostgreSQL and modeled analytics with dbt.
- Created a Power BI trading-terminal dashboard using DirectQuery and auto-refresh for near real-time monitoring.

Text Sentiment Analysis, Personal Project

- Developed a 3-class sentiment classifier for noisy Twitter data using Python and ALBERT (Hugging Face).
- Implemented end-to-end data pipelines for cleaning, tokenization, and feature engineering to handle noisy, unstructured text.
- Evaluated model performance with metrics such as accuracy/F1 on a held-out test set, demonstrating the effectiveness of lightweight transformers for social media sentiment.

Slack Python Q&A Bot, Personal Project

- Designed a Slack-based Q&A bot using Python, Slack Bolt, and NLP libraries to answer common Python questions for developers.
- Implemented intent handling and retrieval logic to surface relevant answers quickly, reducing average question resolution time for the team.
- Improved developer productivity by centralizing knowledge and reducing repeated questions in Slack

Faster Diffusion, Class Project

- Optimized diffusion models for real-time, scalable image generation.
- Leveraged Python, PyTorch, and optimization algorithms to research and enhance deployment efficiency.
- Minimized generation time to validate low-latency diffusion model feasibility for production environments.