

# 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.