

# AAKASH KUMAR TOMAR

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## SUMMARY

MS candidate in Data Science, Analytics and Engineering at Arizona State University (GPA 3.78, graduating May 2026) with 2 years of experience in Python and SQL backend development for a blockchain trading platform. Strong in data wrangling, query optimization, and building analytics-ready datasets, with hands-on experience in Tableau/Power BI and AWS.

## 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:** Python, SQL

**Data & Analytics:** Pandas, Power BI, Tableau, Excel (pivot tables, VLOOKUP, basic formulas), Data Cleaning, Exploratory Data Analysis, ETL

**ML & AI:** PyTorch, TensorFlow, Keras, NLP (Transformers, ALBERT), Computer Vision (OpenCV, MediaPipe), LLMs, Generative AI, Model Training & Evaluation

**Cloud & Tools:** AWS, Databricks, Docker, Git, Redis, RabbitMQ

**Core Practices:** REST APIs, Database Design, Caching, Message Queues, WebSockets, Scheduled Jobs (CRON)

## PROFESSIONAL EXPERIENCE

**OODLES TECHNOLOGIES, India: Senior Associate Consultant**

May 2022 – August 2024

- Engineered Python/Django backend services and relational SQL schemas for a blockchain trading platform, structuring data to support reliable analytics, reporting, and new feature integration.
- Optimized SQL queries and database design, reducing database load by 30% and improving API responsiveness, which improved latency for internal reports and analytics dashboards.
- Built real-time group chat features using WebSockets and monitored engagement metrics, increasing user communication efficiency and usage by 25%.
- Automated Polygon smart-contract deployments and RabbitMQ-based notification pipelines via CRON jobs, ensuring near-100% delivery reliability.
- 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

**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.

**Text Sentiment Analysis, Personal Project**

- Built a robust 3-class classifier to interpret sentiment patterns in noisy, unstructured Twitter datasets.
- Fine-tuned ALBERT using Hugging Face and Python, implementing rigorous data preprocessing pipelines.
- Achieved high accuracy by mitigating noise, demonstrating the effectiveness of lightweight transformers.

**Slack Python Q&A Bot, Personal Project**

- Architected a conversational agent to automate technical support and democratize Python knowledge.
- Integrated Python, Slack Bolt, and NLP libraries to build a responsive, event-driven chat interface.
- Streamlined retrieval and reduced resolution time, significantly boosting developer productivity.