Prateek Parashar

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SUMMARY

M.S. candidate with a 4.0 GPA and a strong foundation in Computer Science and software engineering. Proficient in Python, SQL, and Deep Learning architectures, with hands-on experience in optimizing code performance and developing automated technical support bots. Specialized in reducing inference time for diffusion models.

EDUCATION

M.S. Data Science, Analytics & Engineering December 2026
Arizona State University, Tempe, AZ 4.00 GPA
Relevant Coursework: Generative AI, Data Mining

Bachelor of Technology Computer Science June 2022
DIT University, Dehradun, Uttarakhand, India 3.56 GPA

TECHNICAL SKILLS AND CERTIFICATIONS

Programming Languages: Python (NumPy, SciPy, Scikit-learn, Seaborn), JavaScript (ES6+), HTML5, CSS3, SQL, FastAPI
Data Science: Natural Language Processing, Deep Learning (Transformers/Diffusion), Libraries, LLM Training, System Design
Tools and OS: Docker, Kubernetes, Power BI, AWS Cloud Practitioner, Slack API, Git
Certifications: Stanford-ML, AWS Cloud Practitioner (EDX), Data Scientist Associate (Data camp), Python (IBM)

PROFESSIONAL EXPERIENCE

BTP ECO Products, Gurugram, India: Data Analyst Intern July 2022 – August 2024

- Automated database reporting by deploying 5+ Power BI dashboards, saving tracking hours manually.
- Extracted insights complex datasets to optimize startup decision making using SQL and data modelling.

BTP ECO Products, Gurugram, India: SDE Intern July 2021 – September 2021

- Engineered production grade web components, improving frontend modularity
- Optimized web components for cross-browser compatibility to increase user retention by 21%.

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Virtually Testing Foundation (Remote): Cyber Security Intern Jan 2021 – March 2021

- Identified system vulnerabilities via security testing and managed technical campaigns to drive engagement.
- Drafted accountability frameworks to standardize project management and remote team workflows

PROJECTS

Slack Python QnA Bot November 2025

- Developed an automated Slack bot for instant Python technical support.
- Built a streamlined QnA interface using Python and Slack API.
- Designed automated debugging workflows to solve multi-step technical user queries.

Faster Diffusion Spring 2025(1st Sem)

- Optimized image generation efficiency and speed within diffusion models.
- Implemented performance mechanisms using Python and Deep Learning.
- Reduced inference time by 41% while maintaining high-quality visual results within a team of three.

Tweet Sentiment Analysis April 2024

- Built a classification system to track public sentiment on social media.
- Leveraged ALBERT (Transformer) and Python for high-accuracy processing.
- Categorized large-scale tweet datasets into precise sentiment classes.

Atmospheric Particle Pollution Modelling May 2022

- Modelled PM2.5 and carbon emission behaviour to predict environmental impact.
- Applied Machine Learning algorithms to analyse complex pollutant datasets in a team of two.
- Established a data-driven framework for predicting air quality trends.