

Tanishq Sharma

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EDUCATION

Imperial College London <i>Masters in Artificial Intelligence, Department of Computing</i>	London, UK Sep 2025 – Sep 2026
BITS Pilani <i>Bachelor's in Chemical Engineering</i>	Goa, India Aug 2015 – Aug 2019

EXPERIENCE

Data Engineer 2 <i>Apple</i>	Mar 2021 – Sep 2025 Bengaluru, India
<ul style="list-style-type: none">Architected and optimized a Snowflake-based backend for a live customer-facing application pilot, delivering sub-2 second query responses on 10+ billion records through efficient data modellingBuilt CI/CD pipeline to automate PR testing workflows on GitHub, ensuring early bug detection, reducing manual QA effort and cutting average review-to-merge time by 50%Constructed a scalable web scraping pipeline using Python and multi-threading to analyse image localization issues, reducing computation time by 5xPartnered with team members to migrate 200+ workflows from a cron-based system to a cloud-based Apache Airflow setup with centralized credential management, leading to a 52% reduction in operational costsCollaborated with the Content Operations team to devise a capacity planning framework using an internal API, improving project planning and reducing delivery backlogs by 75%Developed a machine learning framework for daily and weekly monitoring of key business intelligence metrics, leading to the detection of anomalies with a 85% success rate and accelerating issue response times by 60%Engineered GPU-accelerated ML pipeline on Apple Cloud to cut inference time by 2.5x, mapping customer feedback and queries into a unified taxonomy to improve content gap identification and insightsCreated a chat summarisation service on Streamlit using Google's Flan T5 model, enabling analysis of customer-advisor interactions and reducing issue detection time by 55%Designed scalable data models in Snowflake to transform raw iOS app customer journey data into business-consumable formats, enabling insights from 2B+ user visits	
Process Data Engineer <i>Reliance Industries Ltd</i>	Aug 2019 – Mar 2021 Gujarat, India
<ul style="list-style-type: none">Built an in-house motor fault prediction software prototype in collaboration with reliability engineering team with estimated savings of \$50K annually by reducing third-party dependency and enabling predictive maintenanceAnalysed plant data & parameter trends for uninterrupted operation of 9.28 KTPD Alkylation Unit	
Business Analyst Intern <i>InMobi Technology Services</i>	Jan 2019 – Jun 2019 Bengaluru, India
<ul style="list-style-type: none">Implemented strategies which increased ad campaigns revenues by \$5000/dayDelivered weekly business forecasts and identified upcoming opportunities for existing and new accounts the South East Asia Region valued \$50K per month	

COURSEWORK AND CERTIFICATIONS

Planned Coursework (Imperial): Deep Learning, Reinforcement Learning, Mathematics for Machine Learning, Natural Language Processing, Software Engineering for ML Systems

Certifications: Machine Learning Specialization by Andrew Ng, Advanced SQL - Logical Query Processing

TECHNICAL SKILLS

Languages & Programming: Python, SQL, Object-Oriented Programming (OOP), Data Structures & Algorithms

Data Engineering: Snowflake, Apache Airflow, Jenkins, Tableau, Apache Spark

Cloud & Infrastructure: AWS (S3, EC2), Docker, Terraform

Developer Tools: Git, GitLab

Libraries: PyTorch, TensorFlow, NumPy, Pandas, Matplotlib, scikit-learn