



NAMAN KHOSLA

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Data Scientist with 1.5 years of professional experience and 2 years of industry-focused training, skilled in Python, SQL, and ETL pipeline development, with advanced visualization expertise in Power BI and Tableau. I've automated data collection (Python/Selenium), designed scalable pipelines, and delivered insights that cut manual effort by 95% and boosted revenue by 130%. Experienced in deploying on AWS/Azure, integrating ML models, and driving CRM analytics in fast-paced, cross-functional teams. I'm eager to work with data-driven organisations to implement AI-powered solutions, streamline workflows, and fuel scalable innovation.

SKILLS

- **Programming Languages:** Python · R · SQL · Java · C++ · C#
- **Machine Learning & AI:** TensorFlow · PyTorch · scikit-learn · Keras · Random Forest · Gradient Boosting · Hyperparameter Tuning · Model Deployment (Flask, FastAPI) · Time Series Analysis · CNNs · RNNs · LSTMs · Transformers · Attention Mechanisms · Autoencoders · GANs · Reinforcement Learning · NLP · Computer Vision · Generative AI
- **Data Engineering & Cloud:** AWS (EC2, S3, Lambda, RDS, Cognito) · Docker · Kubernetes · Terraform · Apache Spark · Hadoop
- **Databases:** MySQL · PostgreSQL · MongoDB · DynamoDB
- **Data Visualization & BI:** Power BI · Tableau · Matplotlib · Seaborn · ggplot2
- **Statistical Analysis & EDA:** Hypothesis Testing · Regression Analysis · Feature Engineering · Data Cleaning · Normalization · Predictive Modeling (Classification, Clustering, Forecasting)
- **Web Development:** HTML · CSS · JavaScript · React · Node.js · Express.js
- **Version Control & Tools:** Git · GitHub · Jupyter · VS Code

EXPERIENCE

Analytics & Python Developer (Contract)

Powerdata Group Consulting – Remote, Melbourne, VIC | April 2025 – Present

- Built a custom Python/Selenium web-scraper from scratch that automates extraction of structured business data from dynamic portals, cutting manual effort by 95 %.
- Engineered multi-tab scraping logic and dynamic content handling to improve data capture accuracy across multiple sections.
- Automated exports to CSV / Excel with time-stamped foldering for robust version control.
- Created a user-configurable interface to toggle scraping scope (real-time vs. historical), enabling flexible analytics use cases.
- Developed a Python-based bulk email automation tool integrating data outputs with stakeholder outreach workflows.
- Provide ongoing enhancements, user-feedback integration, and maintenance to ensure reliability and scalability of analytics solutions.

Data & Admissions Consultant

SOL Edu & Migration - Brisbane City, AU | July 2022 – November 2022

- Utilized CRM analytics, reports, and dashboards to track student inquiries, visa approvals, and admissions trends, enabling data-driven decision-making in student placement strategies.
- Extracted, organized, and structured student data from an in-house DBMS, ensuring accurate profiling and improved insights for course recommendations.
- Streamlined the admissions process by implementing structured data workflows using Advanced Excel (pivot tables, VLOOKUP, data validation), improving student experience and efficiency in tracking application status.

Business Development Consultant – Data Analytics

Great Learning - New Delhi, India | July 2021 – January 2022

- Achieved revenue worth AUD 211,000 (INR 1,13,95,000) in 5 months, exceeding monthly targets by 130%.
- Consulted and guided experienced professionals (10+ years) on Postgraduate Certifications in Data Analytics, Artificial Intelligence, and Machine Learning from UT Austin, gaining significant exposure to these domains.
- Applied data-driven sales strategies, leveraging predictive analytics to assess lead conversion trends, optimize customer outreach, and develop customized learning paths based on industry background and upskilling needs in AI & Data Analytics.

EDUCATION

Queensland University of Technology (2023 – 2024)

Degree: Master of Data Analytics

Specialization: Computational Data Science, Artificial Intelligence, and Machine Learning

GPA: 6.0 / 7.0

Key Achievements: High Distinction in Artificial Intelligence & Machine Learning, Cloud Computing, Human Information Interaction, Object-Oriented Programming, and Databases.

University of Queensland (2022)

Degree: Graduate Certificate in Business Information Systems

Key Achievements:

- \$10,000 Scholarship for Academic Excellence.
- Selected for the Future Leaders Program.

Amity University (2018 – 2021)

Degree: Bachelor of Business Administration (BBA)

Major: Business Information Systems

GPA: 8.5 / 10 (First Division)

Key Achievements:

- 100% Scholarship for Academic Excellence.
- Class Representative for all 3 years.

Lotus Valley International School (2015 – 2017)

Degree: Year 10 & Year 12

Key Achievements:

- 10/10 GPA (Year 10) and 93.5% (Year 12).
- Super Scholar Blazer Holder for 5 consecutive years.

COMMUNITY SERVICE

Chief Events Manager | UQ Business School Postgraduate Association (UQ BSPA) | 12 Months

- Planned and executed networking and professional development events, enhancing engagement among postgraduate students.
- Managed cross-functional teams and coordinated with stakeholders to ensure seamless event logistics and successful turnouts.

UQ Respect Ambassador | The University of Queensland | 12 Months

- Promoted a culture of inclusivity and respect by leading awareness campaigns and workshops on campus.
- Provided peer support and resources to students, fostering a safe and welcoming university environment.

Donation Drive Volunteer | Brisbane, Australia

- Organized and participated in local charity donation drives, collecting and distributing essential supplies to underprivileged communities.
- Collaborated with local organizations to maximize outreach and impact, ensuring efficient distribution of resources.

Donation Drive Volunteer | Noida & Delhi, India

- Led and coordinated donation drives for underprivileged families, ensuring effective collection and distribution of food, clothing, and essential supplies.
- Worked with NGOs and community groups to raise awareness and increase contributions, benefiting over 500 individuals.

REFERENCE

- **Fabien Z. – Head of Technology**
PowerData Group Consulting
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- **Ananya M. – Preventative Health Counsellor**
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◆ Custom Web Scraper & Automation Suite

🔗 **Description:** Designed and developed a Python/Selenium-based web scraper to automate extraction of structured business data from dynamic web portals. Built a user-configurable interface to control scraping scope (real-time vs. historical) and automated exports to CSV/Excel with time-stamped foldering for robust version control. Extended functionality with a bulk email automation tool to streamline stakeholder outreach workflows.

✓ Key Achievements:

- Built multi-tab scraping logic and dynamic content handling for 95% reduction in manual effort.
- Delivered user-configurable parameters for live vs. historical scraping, supporting diverse analytics use cases.
- Automated data exports and folder management, ensuring consistent version control.
- Developed Python-based email automation integrating scraper outputs with communications workflows.

◆ VulnShieldAI

🔗 **Description:** Developed a vulnerability detection system for C/C++ code using the BigVul dataset (188,773 samples: 177,000 non-vulnerable and 11,000 vulnerable). Designed and trained machine learning models to classify vulnerable and non-vulnerable code samples.

✓ Key Achievements:

- Tokenized source code using Word2Vec and CodeBERT to generate vector embeddings.
- Implemented CNN-LSTM models with SMOTE and augmentation for enhanced accuracy.
- Achieved a balanced accuracy of 93% through advanced feature engineering and hyperparameter tuning.

◆ Full-Stack Cloud Platform

🔗 **Description:** Built and deployed a full-stack platform integrating video and music streaming, concert exploration, and video transcoding capabilities. Designed a microservice architecture for scalability and performance.

✓ Key Achievements:

- Developed frontend with React and backend with Node.js & Express.js for a seamless user experience.
- Integrated external APIs (e.g., Ticketmaster) for real-time concert data and ffmpeg-based transcoding.
- Leveraged AWS (EC2, S3, DynamoDB, RDS, Cognito) for secure, scalable infrastructure.
- Implemented WebSockets for live progress updates and Docker for containerized deployment.

◆ User Interaction Analysis Platform

🔗 **Description:** Designed and implemented an interactive platform to analyze and improve user behavior and decision-making using advanced HCI principles.

✓ Key Achievements:

- Conducted usability testing and behavior analysis to enhance user experience.
- Built search and recommendation algorithms to improve information retrieval efficiency.
- Designed interactive visualizations for user feedback using Tableau and D3.js.

◆ Predictive Modeling for Customer Retention

🔗 **Description:** Developed a predictive ML model to identify factors contributing to customer churn and retention for a retail business.

✓ Key Achievements:

- Engineered features and preprocessed a 50,000-record dataset.
- Trained Logistic Regression, Random Forest, and Gradient Boosting models, achieving 87% accuracy.
- Tuned hyperparameters with GridSearchCV to optimize performance.
- Deployed the model via Flask for real-time retention recommendations.

◆ Image Classification with CNNs

🔗 **Description:** Built a CNN-based model to classify objects in the CIFAR-10 dataset.

✓ Key Achievements:

- Preprocessed and augmented 60,000 images across 10 categories.
- Designed a multi-layer CNN achieving 92% accuracy.
- Optimized with dropout, batch normalization, and learning-rate scheduling.
- Visualized activation maps to interpret model predictions.