ANKIT CHOUDHARY

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Professional Summary

Results-driven Data Scientist with expertise in developing AI-powered business solutions that deliver measurable efficiency and impact. Skilled in Python, SQL, Azure, NLP, and deep learning, with proven experience building and deploying generative AI platforms for pension scheme analysis and document processing. Adept at bridging the gap between technical innovation and business needs, reducing manual processes by over 90% and enabling scalable, data-driven decision-making.

Skills Highlights

- **Programming & Data**: Python, SQL, MySQL, NumPy, Pandas, Scikit-learn, PyTorch, TensorFlow, Hugging Face Transformers
- **AI & Machine Learning**: NLP, Deep Learning, Generative AI, Machine Learning Pipelines, LLM Fine-Tuning, Prompt Engineering
- **Cloud & Tools**: Microsoft Azure (AI-900 Certified) Microsoft Azure (Cloud, SQL Server), Git, MS Office, Docker (basic), REST APIs
- **Engineering & Systems**: MATLAB, LabVIEW, Control Systems, SolidWorks, AutoCAD, PLC Programming
- **Data Analytics**: ETL, Data Preprocessing, Statistical Analysis, Predictive Modelling, Data Visualization, Business Intelligence
- **Professional Strengths**: Problem-Solving, Business Impact Delivery, Cross-Functional Collaboration, Agile Development

Work Experience

Intellica Ltd. – Liverpool, UK

AI/Data Scientist | Aug 2024 – Present

- Presented a proof of concept (PoC) to stakeholders, securing buy-in and initiating development of an AI-driven pension analysis platform.
- Designed and deployed AI workflows that reduced pension analysis time by ~90%, cutting manual effort from 40 hours to under 4 hours, significantly improving operational efficiency.
- Built a software platform that ingests pension documents, performs ETL pipelines, and generates automated proformas using Python and LLMs.
- Developed NLP and generative AI models to extract structured insights from unstructured pension documents with high accuracy.
- Managed SQL Server databases and deployed solutions in Azure Cloud, ensuring scalability and data integrity.
- Collaborated with actuarial and business teams to align solutions with regulatory standards and client expectations.
- Led prompt engineering and LLM fine-tuning to optimize AI performance for pension-specific use cases.

Junior Data Analyst | Oct 2023 – Aug 2024

- Built ETL pipelines improving data retrieval efficiency by 35%, enabling faster pension document processing.
- Assisted in developing NLP models that improved pension data extraction accuracy by 25% compared to manual reviews.
- Supported Azure cloud migration, preparing datasets and workflows for scalable AI deployment.

Kavin Technologies – Gujarat, India
Data Analyst Intern | Aug 2020 – Feb 2021

- Conducted SQL-based analysis to evaluate safety, risk, and reliability in operations.
- Collaborated with product and supply chain teams to enhance data-driven client deliverables.

Focus Academy for Career Enhancement – Bangalore, India
Manager, Business Development | Feb 2020 – Jun 2020

- Secured 15 new key accounts, expanding market presence by 25%.
- Conducted competitive analysis enabling entry into untapped markets, achieving a 20% market share gain.

Wearresist Technologies – Gujarat, India
Manufacturing & Fabrication Intern | Jun 2019 – Jul 2019

- Supported manufacturing processes and contributed to innovative fabrication techniques.

Education

University of Central Lancashire – Lancashire, UK
MSc in Mechatronics and Intelligent Machines (Merit) | Jan 2022 – Jun 2023
Relevant Coursework: Data Analysis (Python, SQL), AI, System Engineering, Control Systems, MATLAB, Machine Intelligence

SRM University – Tamil Nadu, India
B.Tech in Mechanical Engineering (First Class) | Jul 2016 – Aug 2020
Relevant Coursework: CAD/CAM (SolidWorks, AutoCAD), Metrology, Fluid Dynamics, Operations Research

Projects

Automatic Pedal Cycle Shifter – Designed an Arduino-based automatic gear shifting system using hall sensors and servo motor.
Maximization of Fundamental Frequency of Composite Plates – Conducted FEA simulations in ANSYS to optimize vibration performance.

Certifications

- Microsoft Certified: Azure AI Fundamentals (AI-900) - 2024
- Introduction to Engineering and Design, Brown University, USA - 2018
- Python full zero to hero boot campy by Udemy - 2022
- Hands-On Natural Language Processing (LinkedIn, Dec 2023)
- Introduction to Prompt Engineering for Generative AI (LinkedIn, Dec 2023)
- Deep Learning Foundations: Natural Language Processing with TensorFlow (LinkedIn, Nov 2023)
- Machine Learning with Scikit-Learn (LinkedIn, Nov 2023)
- NLP with Python for Machine Learning Essential Training (LinkedIn, Nov 2023)
- NumPy Essential Training: 1 Foundations of NumPy (LinkedIn, Nov 2023)
- Applied AI: Getting Started with Hugging Face Transformers (LinkedIn, Oct 2023)
- Learning Data Analytics: 1 Foundations (LinkedIn, Oct 2023)
- Natural Language Processing with PyTorch (LinkedIn, Oct 2023)
- TensorFlow: Working with NLP (LinkedIn, Oct 2023)
- Transformers: Text Classification for NLP Using BER (LinkedIn, Oct 2023)
- MySQL Essential Training (LinkedIn, Sep 2023)
- Power BI Essential Training (LinkedIn, Sep 2023)
- SQL Essential Training (LinkedIn, Sep 2023)
- Azure Machine Learning Development (LinkedIn, Mar 2022)
- Machine Learning with Python: Foundations (LinkedIn, Mar 2022)
- Learning Arduino: Foundations (LinkedIn, Feb 2022).
- Programming Foundations: Fundamentals (LinkedIn, Jan 2022).

Additional Information

- **Languages**: Fluent in English, Hindi, Gujarati
- **Awards**: Winner of district-level table tennis, national/state karate championships, and football tournaments; multiple modelling competition wins.