



# Akshita Chaudhary

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 [LinkedIn Profile](#)  [Portfolio Website](#) | Open for Relocation

## PROFESSIONAL SUMMARY

Experienced data professional with six years of expertise spanning data science, data engineering, and cloud-native technologies. Focused on problem-solving, leveraging advanced analytics to drive actionable insights and optimise data-driven solutions.

## TECHNICAL SKILLS

- Generative AI: Langchain Framework, Large Language Models Applications
- Languages and Packages: Python, SQL, Wolfram Mathematica, Pandas, NumPy, Scikit Learn, Seaborn
- Statistical Modelling: Hypothesis Testing, Exploratory Data Analysis, Data Manipulation, Data Integration, Data Processing, Data Cleaning
- Data Engineering: Microsoft Azure Data Factory, Azure Storage, Azure Synapse Analytics, Azure Databricks, Azure Document Intelligence, Azure Data Lake Storage, Power BI
- Machine Learning: Boosting Models, Classification, Regression, Clustering, Random Forest, Predictive Modelling, Unsupervised Learning (K-means, DBSCAN)
- DevOps, Cloud and Server Management: Docker, Kubernetes, Azure DevOps, Hashicorp Key Vault, Azure Key Vault, Git, CI/CD platforms like Jenkins, RestAssured API Automation, Selenium Web Automation, Postman, Rational
- Frontend Technology: HTML5, CSS3, JavaScript, React

## WORK EXPERIENCE

UNIVERSITY OF ABERDEEN

SEPTEMBER 2023 - MARCH 2024

### RESEARCH ASSISTANT | DATA SCIENCE

- Researched and developed an automated form-filling system using the Langchain Framework, reducing manual administrative tasks in the university by 80%. Explored various Large Language Models (LLMs) and deep learning methods, including GPT, BERT, LLAMA, Mistral, and Transformer's architecture.
- Applied exploratory data analysis and machine learning models over several datasets in the health and finance domains, extracting actionable insights for decision-making purposes.

JIO PLATFORMS LIMITED

JULY 2021- DEC 2023

### DATA SCIENTIST & ENGINEER | DEPUTY MANAGER

- Experience building standard POC supervised (classification) models for Telecom Data and understanding standard industry libraries (pandas, sklearn, Keras, etc.)
- Developed and researched predictive models using various machine learning algorithms like XG-Boost and Decision Trees
- Responsible for developing critical data and CICD pipeline for data for 65k Employee records using SQL and Azure Services like Azure DevOps, Azure Data Factory, Azure Data Storage
- Managed Apache Kafka clusters, ensuring real-time data processing and robust security

- Developed UI features in React for a Patent Edge-based web app, enhancing user experience and interface functionality

RELIANCE DIGITAL PLATFORM & PROJECT SERVICES LIMITED

JULY 2018- JULY 2021

**CLOUD ENGINEER | ARTIFICIAL INTELLIGENCE RESEARCH TEAM**

- Developed Proof of Concept(POC) using Seldon Core to deploy machine learning models in a containerised cloud-native environment.
- Established cloud-native environments, including configuring Kubernetes clusters in private cloud environments.
- Produced technical documentation and manuals, improving site issue resolution by 20%
- Conducted quality checks, reducing manual tasks by 70% in an edge-based access control project

RELIANCE JIO INFOCOMM LIMITED

JULY 2017- JULY 2018

**JUNIOR DATA SCIENTIST | GRADUATE ENGINEER TRAINEE**

- Graduate Engineer Trainee with a robust grasp of the software development lifecycle.
- Spearheaded research using the OpenCV library, delving into facial recognition algorithms.
- Research-based work exploring n-gram modelling and neural network models like LSTM for a chatbot application "Hello Jio."
- Executed comprehensive software test planning, test case design and test execution using the Rational tool for various Jio products, actively communicating and resolving issues with the resolution team.
- Recognized for identifying the maximum number of critical issues in applications.

## EDUCATION

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**MSc Data Science(Hons.), University of Aberdeen, UK | Distinction**

Jan 2023-April 2024

Courses include Programming with Wolfram Mathematica, Data Science Lifecycle, Programming with Python and R, Statistics and Time Series Analysis, Advanced Statistics, Machine Learning and Image Analysis.

***Dissertation title: Generative AI: Built an Automatic Form Filling System Using Large Language Models(LLMs)***

**B.Tech. Computer Science(Hons. Degree), SNDT University | Grade A+**

July 2014-July 2017

Courses include Databases, Data Structures and Algorithms, Computer Networking, Computer Graphics, Object-Oriented Programming, and other relevant subjects completed over four years.

## PROJECTS

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- Predictive model for customer churn in Telecom Industry
- Exploratory data analysis on several datasets in Python and Wolfram Mathematica using Wolfram Mathematica
- Azure Data Factory and Databricks End-to-End Project Pipeline on several datasets
- Generative AI: LLM-based Chatbot Application
- Generative AI: Lang chain project for customer support app

## PUBLISHED WORK

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[WILEY PUBLICATIONS](#)  | **CO-AUTHOR**

YEAR 2022

**"Cloud-native Computing: How to Design, Develop, and Secure Microservices and Event-Driven Applications"**

This publication provides a comprehensive guide to cloud-native computing, covering the design, development, and security of microservices and event-driven applications based on expert insights and research.