

# Askan Mulla

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## PROFESSIONAL SUMMARY

Creative and result-oriented Senior Data Scientist with 6+ years of experience. Skilled in building and deploying ML models using Scikit-learn, TensorFlow, and Keras. Proficient in classification, regression, clustering, and NLP with OpenCV, PyTorch. Experienced in advanced NLP models with LangChain and Generative AI. Passionate about solving complex business problems to enhance efficiency, accuracy, and utility of internal data processing.

## EDUCATION

- **M.Tech in Artificial Intelligence & Machine Learning** - BITS Pilani
- **B.E. in Mechanical Engineering** - Kalsekar Technical Campus, Mumbai University (2017), CGPA: 7.04
- **HSC** - Saboo Siddik Technical College, Maharashtra Board (2013), Aggregate: 68.20%
- **SSC** - Saboo Siddik Technical High School, Maharashtra Board (2011), Aggregate: 72.40%

## EXPERIENCE

### Senior Data Scientist: 5 Paisa Capital Limited | Mumbai | Employee Code: C226231

Sep 2023 – Present

- Translated business problems into analytical solutions and facilitated technical direction on data science projects, improving ML model accuracy by 20%.
- Led ML & Analytics activities, collaborating with cross-functional teams to integrate data-driven strategies, resulting in a 15% increase in operational efficiency. Managed a team of 6 members, optimizing metrics, data analysis, and identifying improvement opportunities, reducing data processing time by 30%.
- Developed advanced predictive models, significantly improving customer acquisition by 21%.
- Successfully managed multiple data science projects, adhering to strict timelines and budgets, enhancing project delivery efficiency by 10%.
- Engaged with stakeholders to understand business needs and communicated data insights effectively, leading to data-driven decision-making and a 15% increase in operational efficiency. Collaborated closely with team members, participated in code reviews, and documented workflows and codebases, fostering a collaborative and efficient work environment.
- Lead the design, development, and deployment of AI and ML solutions, focusing on generative AI and NLP.
- Design and develop NLP systems and applications, leveraging frameworks like BERT, GPT-4, and LangChain.

### Data Scientist: ICICI Lombard General Insurance | Mumbai | Employee Code: 1032906

Feb 2022 – Sep 2023

- Developed custom LLMs using NLP, DL, and ML models, which increased data insight generation speed by 40%.
- Designed recommendation systems that enhanced user experiences, leading to a 20% increase in customer engagement and a 12% rise in revenue.
- Analysed and pre-processed large datasets, ensuring data quality and accuracy, which improved performance by 15%.
- Applied statistical analysis and data visualization techniques, resulting in actionable insights that contributed to a 10% increase in sales.
- Utilized predictive modelling to optimize business outcomes, significantly enhancing customer segmentation and targeting, leading to a 10% revenue boost.
- Collaborate with cross-functional teams to develop A/B testing frameworks, monitor model performance, and iterate on models based on feedback.

### Data Scientist: Motilal Oswal Financial Service Limited | Mumbai | Employee Code: 26311

Nov 2017 – Feb 2022

- Proficient in predictive and prescriptive analytics, delivering high-quality work and implementing robust ML models that improved forecasting accuracy by 20%.
- Developed and maintained scalable Python code for data processing, enhancing data handling efficiency by 25%. Created RESTful APIs for machine learning model integration, facilitating seamless data communication and reducing integration time by 30%, along with optimizing data pipelines using ETL techniques.
- Demonstrated strong ability to write complex SQL queries, work independently with minimal guidance, and effectively communicate in both technical and business terms. Leveraged cloud platforms (AWS, Azure, GCP) and big data tools (Hadoop, Spark) for enhanced data management.
- Experienced with NLP, NLG, and Large Language Models such as BERT, LLaMa, LaMDA, BLOOM, PaLM, and DALL-E. Conducted A/B testing to validate model performance and optimize outcomes.
- Collaborated with cross-functional teams to identify and solve complex data problems. Conducted exploratory data analysis, uncovering insights that increased decision-making effectiveness by 15%.
- Manage multiple data science projects, ensuring adherence to timelines and budgets, and driving execution towards successful outcomes.

SKILLS

- Python
  - Machine Learning
  - TensorFlow
  - Deep Learning
  - NumPy
  - Pandas
  - Predictive Analytics
  - Data Science
  - Scikit-Learn
  - PyTorch
  - Data visualization
  - AI Engineer
  - ML
  - Power BI
  - SQL
  - Forecasting
  - Neural networks
  - Analytical
  - Hadoop
- Generative AI
  - Predictive modeling
  - Statistical analysis
  - Data pre-processing
  - Model evaluation
  - NLP techniques
  - Feature engineering
  - Ensemble modeling
  - Model optimization
  - Open Source LLM
  - Data modeling
  - Big Data tools
  - MLOps
  - Project Management
  - OpenCV
  - Deployment
  - RAG
  - Huggingface
  - NLTK
- Natural Language Processing (NLP)
  - Large Language Models (LLMs)
  - GANs (Generative Adversarial Networks)
  - VAEs (Variational Autoencoders)
  - Computer Vision
  - Exploratory Data Analysis (EDA)
  - Langchain Framework
  - Data modeling
  - Cloud environment deployment
  - API development
  - Cloud platforms (AWS, Azure, GCP)
  - Cross-functional team collaboration
  - Stakeholder communication
  - Technical documentation
  - Artificial Intelligence
  - Image Processing
  - Financial services
  - Conversational AI
  - SAS & R Programming

CERTIFICATIONS

- Professional Machine Learning Course - Stanford University, Coursera
- IBM Data Science Professional Certification - Coursera
- Maharashtra State Certificate (MS-CIT)
- Government Commercial Certificate Examination in English Typewriting - 50 WPM and CPM 250

ACHIEVEMENTS

- Achieved a Zonal-level medal in university-level outdoor cricket championship.
- Developed credit risk assessment model, reducing defaults by 18%, earning Performance of the Year recognition in ICICI LOMBARD in 2023.
- Built Lead Scoring Propensity model, increasing projections by 15%, eared Employee of the Month in 5paisa.
- Improved customer loyalty by 10% through enhanced lifetime value strategy, earning Employee of the Year in Motilal Oswal in 2019.
- **Language:** Marathi, Hindi, Urdu, Gujarati & Arabic.

PROJECTS (For more projects, visit my GitHub profile)

Automated Lead Scoring Propensity Model with Churn Prediction	Increased lead conversion rates by 25% and reduced churn by 15%.	<a href="#">Source Code Link</a>
Stock Recommendation System Using Collaborative Filtering	Improved recommendation accuracy by 20%, enhancing portfolio performance.	<a href="#">Source Code Link</a>
Customer Segmentation Clustering Model	Enhanced targeted marketing campaigns, leading to a 30% increase in customer engagement.	<a href="#">Source Code Link</a>
Home Credit Risk Score Model Stability with Fraud Detection	Reduced fraudulent loan applications by 40% and improved credit risk assessment accuracy.	<a href="#">Source Code Link</a>
Bank Statement Analyzer using Fo0hfyinBERT	Automated bank statement analysis, reducing manual processing time by 50%.	<a href="#">Source Code Link</a>
Financial Statement Text Summarization using BERT	Provided concise and accurate summaries, improving financial analysis.	<a href="#">Source Code Link</a>
AI vs Human Text Classification Using BERT Neural LLM Model	Achieved 95% classification accuracy, surpassing human performance.	<a href="#">Source Code Link</a>
OCR-ID: Optical Character Recognition for Identity Documents	Achieved 98% data extraction accuracy, expediting KYC processes.	<a href="#">Source Code Link</a>
Flight Price Prediction using AWS Sagemaker	Increased prediction accuracy by 15%, aiding cost-effective travel.	<a href="#">Source Code Link</a>
Gen AI for vision Aadhar and PAN Card KYC Using Computer Vision	Streamlined KYC verification, reducing processing time by 60%.	<a href="#">Source Code Link</a>
Gen AI Project using Langchain & LLAMAINDEX	Enhanced model interpretability and performance in complex tasks.	<a href="#">Source Code Link</a>
Future Insights Advanced Time Series Forecasting	Improved forecast accuracy by 20%, aiding strategic planning.	<a href="#">Source Code Link</a>