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SUMMARY

Results-driven Data Scientist with hands-on experience in financial analytics, predictive modeling, and recommender systems. Skilled in Python (pandas, scikit-learn, NumPy, Tensorflow), SQL, and Power BI, with a strong background in transforming raw financial and demographic data into actionable insights. Proven ability to design and deploy machine learning solutions that drive measurable business impact—from clustering and recommendation algorithms to data visualization and strategic analytics.

EDUCATION

Indian Institute of Technology, Roorkee (IIT Roorkee)

B. Tech - Polymer Science and Engineering - CGPA - 7.2

2017 - 2021

Roorkee, Uttarakhand

EXPERIENCE

Product Manager, Data Science & Analytics - ICICI Bank

Mar 2021 - Mar 2023

- Managed a 3-member analytics team, driving collaboration, learning, and enhanced delivery.
- Built data pipelines in Python and SQL to collect, clean, and preprocess large structured and unstructured datasets, ensuring reliability and consistency across sources.
- Automated cleaning and validation routines that accelerated data readiness for analytics and modeling.
- Developed a Python based recommender system (JupyterLab), applying unsupervised clustering (K-Medoids) to segment 5K companies by key financial and demographic variables.
- Applied **collaborative-filtering** techniques to infer product affinities within each cluster and recommend offerings to new entrants.
- Delivered actionable insights that enhanced lead quality by 35% and increased sales conversion rates by 10%.
- Conceptualized key metrics to categorize newly onboarded clients into potential segments, optimising resource allocation and increasing net new banking profit by 14% YoY.
- Led training workshops for 300+ sales members, boosting PowerBI adoption by 40%.
- Automated Power BI dashboards delivering monthly Fixed Deposit insights with regional and volume drill-downs, empowering smarter strategy decisions.
- Analyzed **key drivers and performance metrics** of the Fixed Deposit product to uncover essential market trends.
- Delivered data-driven leads that enabled the sales team to achieve a 20% YoY growth in deposits.

PROJECTS & INTERNSHIPS

Math Content Expert - Khan Academy ☑ — PowerPoint , Adobe Premiere Pro

Jan 2025 - Present

• Developed 50+ educational video content simplifying advanced mathematical concepts for official youtube channel and website.

Data Science Repositories - Decodr Solutons ☑ — Python , JupyterLab , GitHub

Jun 2020

• Built repositories of Data Science Projects involving knowledge of Python, Machine learning, Deep learning, and Recommender Systems.

AI Research Intern - B Aegis Life Science - Python , CNN , JupyterLab , GitHub

Jun 2020

- Developed a live cough detector that classifies cough sounds from a variety of surrounding sounds in real-time.
- Audio files were converted to spectrograms, and further MFCC spectrogram techniques were used to convert the audio files to images upon which deep learning model (CNN) was implemented for classification.

TECHNICAL SKILLS

Languages: Python, SQL, C++

Technologies/Frameworks: Google Colab, Jupyter Notebook, Power BI, Microsoft Office

Additional Courses: Structuring Machine Learning Projects, Neural Networks and Deep Learning, Perform Sentiment Analysis with Scikit-Learn, Introduction to tensorflow for AI,ML and DL, Improving Deep Neural Networks, Feature Engineering and EDA, Statistical Analysis with model evaluation metrics (ROC-AUC)