

Amit Rout

Data Scientist | Machine Learning

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SUMMARY

Data Scientist with extensive experience in software engineering and Analytics. **Spearheaded** data-driven solutions by analyzing complex datasets and **developing** machine learning models to optimize business performance. **Engineered** scalable data pipelines and **leveraged** statistical techniques to extract meaningful insights. **Implemented** innovative code to **automate** workflows and **improve** efficiency. **Communicated** insights effectively through compelling visualizations tools. Passionate about **driving** data-centric strategies and **transforming** raw data into actionable intelligence.

EXPERIENCE

Data Scientist

Gurugram

Accenture

Present

- **Implemented** advanced **NLP pipelines** to extract key competencies from resumes, improving candidate-job alignment by **15%** and increasing hiring success rates.
- **Optimized** JD generation accuracy by **30%** through iterative fine-tuning of **large language models (LLMs)**, improving hiring efficiency for business units.
- Developed and maintained **20+ CDS Views** for **SAP S/4HANA Finance module**, optimizing real-time profit and loss reporting, improving query execution by **35%**, and enabling seamless Fiori app integration.
- Modeled and Tested **hierarchical CDS Views** with **SQL performance tuning** for a **supply chain analytics dashboard**, improving material tracking and decision-making by **50%**.

SKILLS

C++, Python, MySQL, TensorFlow, Keras, Pandas, seaborn, NumPy, OpenCV, Data Visualization, Feature Engineering, NLP, Deep learning, Machine Learning, Statistical Analysis, Predictive Modeling, Scikit-learn, LLMs, AWS

PROJECTS

Credit Risk Modeling Using Machine Learning

- Developed a machine learning model to predict credit risk by analyzing borrower data, classifying applicants into **low-risk** and **high-risk** categories to assist in loan approval decisions.
- Implemented models using **Python, Scikit-learn, XGBoost, and LightGBM**, leveraging preprocessing techniques like **feature scaling, outlier removal, and imputation** for robust data preparation.
- Deployed the trained model using Flask/FastAPI, enabling real-time credit risk predictions via a web-based interface for financial institutions.
- Achieved **91.5% accuracy** and an **ROC-AUC of 94.2%**, providing interpretable insights through dashboards for feature importance and performance metrics to guide decision-making.

Skin Lesion Detection

- Leveraged **Python, TensorFlow, Keras, and OpenCV**, alongside data preprocessing techniques like **normalization and augmentation** to enhance dataset robustness by **30%**.
- Enhanced dermatological diagnostics by automating lesion classification, with a proposed roadmap for real-time deployment.
- Managed to achieve **93.8% accuracy, 92.4% precision, 94.2% recall, and 93.3% F1-score** on the test set, demonstrating state-of-the-art performance.
- Designed a CNN-based machine learning model to detect and classify skin lesions using over **25,000 Skin Lesion images** from the ISIC.

EDUCATION

Bachelor of Technology in Electronics and Communication

GreaterNoida,U.P,INDIA

Galgotia College of Engineering and Technology, India

2019 - 2023

- **C & Python Programming**, Digital Signal Processing, Network Analysis, Signal system, VLSI system, **Data Communication networks, Machine learning**, Digital image processing, **Statistics and Probability**, Cloud computing, Embedded systems

FIND ME ONLINE

GitHub (<https://github.com/debugamit>)

LinkedIn

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