Diksha Aswal

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Experienced Data Scientist proficient in Python, machine learning, and deep learning, with a track record of solving complex problems. Adept at effective communication and cross-functional collaboration, eager to contribute to innovative and challenging projects.

EDUCATION

The State University of New York at Binghamton, USA

Master of Science in Computer Science

IIIT Allahabad, India

Master of Technology in Machine Learning and Information Systems

Master's Thesis: Absolute Intersection Over Union: A complete Loss for Faster and Better bounding box regression.

UIET Kurukshetra. India 08/2013 - 06/2017

Bachelors of Technology in Computer Science and Engineering

CGPA: 8.0/10

SKILLS

Languages: Python, SQL, C++, C, R

General Tools: Jupyter Notebook, Git, Rundeck, AWS (Cloud Development Kit, OpenSearch, S3, Glue, IAM, Lambda,

SageMaker, RedShift), RStudio, DBVisualizer, MS Office Suite, MongoDB, Visual Studio Code Data Visualization Tools: Google Charts, Looker, MS Excel(formulas, pivot tables), Tableau

Technical Skills: A/B Testing, Predictive Analysis (Decision trees, Clustering, Regression), Statistical Modeling and Analysis, Deep Learning (RNN, Attention, LSTM), Natural Language Processing, Graph API, Big Data, Computer Vision

EXPERIENCE

Amazon 08/2024 - 03/2025

Data Science Intern

Boston, MA

08/2023 - 05/2025

08/2018 - 06/2020

CGPA: 3.94/4

CGPA: 9.14/10

- Ticket Similarity Search: Developed and deployed a ticket similarity model using OpenSearch and LLM-based embeddings to enhance ticket resolution efficiency. Built and deployed the model as an AWS Lambda function using CDK, integrating it with API Gateway for seamless accessibility. Achieved an 89% average similarity score, improving search accuracy and recommendation effectiveness.
- Mitigation Tagging: Developed an NLP based model to predict mitigation procedure tags for upcoming service tickets based on historical text data, improved the performance by 20%.
- Designed and implemented ETL pipelines to automate and streamline data workflows across modeling and analysis tasks.

Moonfrog Labs Pvt. Ltd.

09/2020 - 04/2023

Senior Data Scientist

Bangalore, India

- Developed a revamped allocation method using gini coefficient measure, enhancing fairness in Teenpatti online game, yielding a 25% boost in competition equity.
- Created Machine Learning based fraud detection algorithm, which increased fraud detection by 133% per day.
- Setup personalized promotions, leveraging player profile clustering, led to 12% revenue upsurge in the initial phase.

Data Scientist

- Analysed data from 3M+ users, suggest strategies to enhance KPIs post-feature launch.
- Created and optimized ETL pipelines to transform and load data into Redshift for reporting and analytics.
- · Proficiently designed and streamlined various data visualization dashboards, daily reports to help identify critical KPIs and facilitate strategic planning.

Associate Data Analyst

- Performed A/B testing on gaming features like in-app promotions, improved conversion rate by 10%.
- Enhanced ML fraud detection on gaming platform, reducing false positives by 64%.

PUBLICATION

Aswal D., Shukla, P. Nandi, G.C. Designing effective power law-based loss function for faster and better bounding box regression. Machine Vision and Applications 32, 87 (2021). https://doi.org/10.1007/s00138-021-01206-5

PROJECT

Thesis Project 09/2019–06/2020

Developed a loss function for computationally efficient and accurate bounding box regression IIIT, Allahabad

- Studied bounding box regression loss functions for object detection using deep learning.
- Designed and integrated the novel AloU loss function, outperforming I-norms, GIOU, DIOU, and CIOU.
- Evaluated performance via simulation experiments comparing computation time and error rates.
- Applied deep learning techniques and utilized state-of-the-art algorithms like YOLOv3 and SSD for object detection on the PASCAL VOC dataset.