Amit Kumar Singh

IABAC™ Certified Data Scientist

Executive Data Scientist and Passionate Machine Learning practitioner with a demonstrated ability to deliver valuable insights via data analytics and advanced data-driven methods with overall 7+ years of industry experience. Advanced understanding of Statistical, Machine, and Deep learning , NLP, GenAI analytical techniques. Highly organized and motivated with a vision to make the world a better place using the data around us.

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WORK EXPERIENCE

Data Scientist
Cloud4C Services

05/2021 - Present

- Responsible for developing internal products utilizing machine learning and AI concepts; core team member of the Data Analytics and AI/ML group..
- Collaborated with globally distributed teams and clients as a Data Scientist, involving cross-functional team engagement. Primary responsibility was taken for data analysis, ML model development, and training teammates to handle project commitments effectively.

R&D Engineer
Rolls Royce

08/2019 - 08/2020   *Derby, United Kingdom*

- Developed machine learning models to predict aero engine part failures based on historical data.
- Interacted with project leaders and stakeholders to define business requirements and generate and maintain design development documents using past databases.

Engineer
QuEST Global

01/2017 - 10/2020   *Bangalore, India*

- Developed, tested, and assessed alternative design models and processing methods and Worked with Rolls Royce product designers to implement and debug new design processes using databases of various engines.

EDUCATION

Masters of Science in Data science
Liverpool John Moores University

2024   *Liverpool, United Kingdom*

Post Graduate Diploma in Data Science
IIIT Bangalore

2021 - 2022   *Bangalore, India*
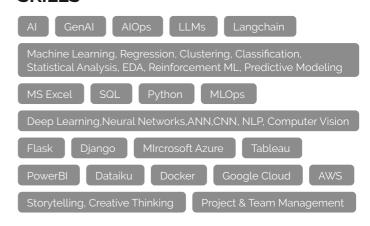
Mechanical Engineering
PES University

2012 - 2016   *Bangalore, India*

Intermediate
DAV Koylanagar

2009 - 2011   *Dhanbad, India*

SKILLS

AI   GenAI   AIOps   LLMs   Langchain

Machine Learning, Regression, Clustering, Classification, Statistical Analysis, EDA, Reinforcement ML, Predictive Modeling

MS Excel   SQL   Python   MLOps

Deep Learning,Neural Networks,ANN,CNN, NLP, Computer Vision

Flask   Django   MIrcrosoft Azure   Tableau

PowerBI   Dataiku   Docker   Google Cloud   AWS

Storytelling, Creative Thinking   Project & Team Management

PROJECTS

Alert Classification for security and operations centers (SOC)
- Created buckets of alerts based on text data by clustering algorithms..
- Trained multi-class classification model to get alerts category, preprocessing and analysis of alert text data.

AI-Driven Fraud Detection System for a Banking client.
- Utilised deep learning techniques to conduct through banking fraud analysis, demonstrated a strong ability to detect and prevent fraudulent transactions.
- leveraged neural networks and data-driven insights to enhance fraud detection accuracy and contribute to the security of financial transactions.

Ongoing Thesis paper on the topic ' Detection of Banking Frauds using Deep Learning Techniques'
- Currently working on a thesis (research paper) that tries to detect frauds in banking industries using the deep learning, GenAI techniques for my ongoing Masters.

ACHIEVEMENTS

Gold Medalist in International Mathematics Olympiad.

Collaborated with Cuemath as International certified teacher.

Delivered multiple webinars as a Guest Speaker on machine learning and data science for university students and professionals through various edtech platforms, including Collegedunia.

INTERESTS

Teaching   Travelling   Cooking   Art & Craft

Storytelling   Public Speaking   Trekking