AKSHAY BHAT

>> DATA SCIENCE | MACHINE LEARNING

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OBJECTIVE

A tech-savvy Data Scientist with a passion for using data science and AI to drive business success. Recent graduate with a Master's in Data Science (Professional) and a background in engineering, bringing a strong foundation in machine learning, cloud-based data technologies, and data manipulation. Proficient in Python, and SQL, and experienced in utilizing AWS services to develop and deploy machine learning solutions.

EDUCATION

Masters in Data Science (Professional)
2021 - 2023 - James Cook University, AUSTRALIA

Engineering in Automation and Robotics
2016 - 2020 - KLE Technological University, INDIA

SKILLS & TOOLS

Programming:
Python (Pandas, Numpy, Matplotlib, Scikit-Learn, Tensorflow), SQL, R, SAS.

Machine Learning, Deep Learning & other:
Linear Regression, Logistic Regression, Decision Trees, Random Forest, KNN, k-means, PCA, Association Rule Learning, Causal Impact Analysis, Support Vector Machine, CNN, ANN, Transfer Learning, Computer Vision, Statistics, Github, Data Visualisation, Tableau, NLP (Natural Language Processing), and AWS.

Soft Skills & Languages:
Communication, Story Telling, Team Work, Stakeholder Management, English.

WORK EXPERIENCE

Data Scientist Ganadhipa Gramodyoga Kaigarike, Sirsi, India - Sep 2020 to August 2021, 1 Year

- Designed and implemented statistical models for sales forecasting, enhancing inventory management, and resource allocation strategies.
- Utilized k-means clustering to identify purchase patterns and then segmented customers based on purchase categories to carry out targeted offer campaigns.
- Utilized OpenCV to develop an image classification system for gift article manufacturing, enabling defect categorization.
- Transformed analytical models into user-friendly GUI applications, simplifying data analysis and decision-making processes.
- Executed A/B testing methodologies to assess marketing campaigns, optimizing strategies and improving conversion rates.

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Data Scientist | Machine Learning Intern Ocean Infinity, London, UK (Remote) - Sep 2022 to March 2023, 6 months

- Led the development of an innovative ML architecture for subsea asset monitoring, emphasizing advanced AI and machine learning skills.
- Achieved significant cost reductions, with quarterly savings of up to £260,000, demonstrating financial acumen and risk management.
- Seamlessly integrated ML technology into practical applications, bridging the gap between theory and real-world implementation.
- Contributed to the evolution of global safety standards through innovation, showcasing leadership in safety and compliance.

Data Scientist | AI Intern JCU Founders in Residence Portfolio, Cairns, Australia - July 2023 to Sep 2023, 3 months

- Successfully led a project turnaround, demonstrating leadership and problem-solving skills and delivering in record time.
- Contributed AI solutions to startups Anatomy AI and Mysizer, highlighting the role as a valuable contributor to innovative projects.
- Developed an advanced smart mirror for Ingham State High School, integrating real-time interaction via OpenAI, emotion detection, and affirmations display to enhance emotional well-being, emphasizing technical skills in AI and technology integration.

PROJECTS

"You Are What You Eat" Customer Segmentation
Used k-means clustering on grocery transaction data to split customers into distinct "shopper types" that could be used to understand customers over time better and more accurately target customers with relevant content & and promotions.

Quantifying Sales Uplift Using Casual Impact Analysis
Implemented causal impact analysis using pycausalimpact on a campaign dataset, revealing a statistically significant 41.1% sales increase for Delivery Club customers, demonstrating the club's impact on driving sales growth.

Grocery Delivery Optimization
Developed and applied a Python-based Genetic Algorithm to optimize delivery routes, resulting in potential 50% savings in time and fuel consumption, applicable to various industries for optimal solutions.

BHP (Burst Header Packet) Flooding Attack Detection in Optimal Burst Switching Networks
Using machine learning and Python for statistical modelling, forecasted and detected potential BHP flooding attacks, ensuring network stability and safeguarding infrastructure from malicious flooding operations, assuring network administrators of robust performance.