ARUN KUMAR RANA

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SUMMARY

Experienced Data Scientist with a strong background in machine learning, NLP and data analysis. Focused on real-world applications of NLP to enhance business operations and customer satisfaction. Skilled in Python, statistical modeling, and leveraging AI technologies to drive innovation and improve performance.

EXPERIENCE

Machine Learning Engineer

TechDice   **May 2024 – Present, Delhi**

· Administered and secured Flask-based web applications with integrated natural language processing for sentiment analysis, chatbots, and AI-driven features, enhancing user interaction and reducing response times by 25%.
· Analyzed data and market analysis to identify trends, improve decision-making, and enhance market strategies. Leveraged datasets to develop innovative solutions, resulting in a 15% improvement in return on assets (ROA).
· Created classification models and solutions using advanced algorithms to solve complex problems, enhance security, and improve performance, achieving a 40% improvement in data security and a 20% increase in processing efficiency.
· Generated and implemented predictive models using Python and Tensor Flow, enhancing customer retention by 25% through improved personalized recommendations.

Data Scientist Intern

Afame Technologies   **January 2024 – March 2024, Bengaluru**

· Evaluated data and market analysis to identify market trends and enhance decision-making, leveraging datasets and innovative marketing technology for a 20% increase in campaign effectiveness.
· Formulated classification models for gender and age detection, improving security and ROA. Engineered chatbots with natural language processing to enhance communication and collaboration.
· Directed Flask for web development and led AI-driven solutions, applying advanced algorithms and artificial intelligence to solve problems, improve data security by 40%, and reduce reliance on cookies.

Data Science Intern

Info Accurate Solution   **August 2023 – November 2023, Bengaluru**

· Programmed and deployed Python-based image classification models, achieving an accuracy rate of 95% and improving efficiency by reducing manual classification time by 80%.
· Simplified ML algorithms in road lane detection system resulting in a 50% reduction in accidents and increasing driver safety on highways.
· Developed a Python-based cancer prediction application utilizing ML algorithms, accurately predicting cancer with a sensitivity of 90% and reducing false positive rates by 75%.
· Produced and managed machine learning models on AWS to predict customer churn with 85% accuracy, leveraging Python, Scikit-learn, and Pandas for data analysis and modeling.

Machine Learning Intern

Feynn Labs   **May 2024 – July 2023, India**

· Strategized and constructed the development of ML-driven products, working closely with stakeholders to create a comprehensive roadmap resulting in a 32% increase in product adoption.
· Utilized ML models including regression, decision trees, and clustering to optimize business processes, leading to a 20% reduction in operational costs and improved customer success rates.
· Adapted artificial intelligence and open source innovation to address market issues, resulting in a 15% increase in software status and brand recognition within the industry.

PROJECTS

Object and vehicle detection models| Bone tumor detection system| Deaf assistant| Credit card fraud detection| Fake news detection| Gender detection and age detection| bone tumor detection| Recommendation systems

TechDice| Afame | Info accurate| Feynn Labs| Twilearn · github.com/arunkum54?tab=repositories · February 2023 –June 2024

· Engineered models, achieving a 30% reduction in false positives, and assisted in developing systems enhancing early diagnosis by 98%.
· Implemented with 95% accuracy and constructed a system with a sensitivity of 90%, while also evaluating customer segmentation to optimize strategies and designing systems to enrich user experience.
· Deployed machine learning algorithm, achieving a 95% accuracy rate using technologies like Tensor Flow and OpenCV.

EDUCATION

Bachelor of Computer Science Engineering

Visvesvaraya Technological Universit · Bengaluru, India · 2024

· Average percentage of 75%, completed in May 2024.

CERTIFICATIONS

Data Science with Python

National Programme Of Technology Enhanced Learning · 2023

· Acquired advanced skills in Python programming and data science methodologies

SKILLS

Technical Skills: Machine Learning, Deep Learning, Python, Keras, Data Visualization, Statistical Analysis, Artificial Neural Networks(ann), SQL, Data analytics, Tensor Flow, Natural Language Processing(nlp), matlab, Reinforcement Learning, Cnn, Rnn, Ml Algorithms