Data Analyst | AI and ML

+234-9112386741 | Abuja, Nigeria

PROFESSIONAL SUMMARY

Experienced Data Analyst and Machine Learning Engineer specializing in AI technologies with a proven track record of delivering impactful insights and developing robust ML models. Skilled in data preprocessing, feature engineering, model selection, and deployment in production environments. Possess strong analytical, problem-solving, and communication skills, adept at collaborating across teams to drive data-driven decision-making and innovation.

SKILLS

- **Programming Languages**: Python, JavaScript, C++. .
- **Machine Learning Tools/** Libraries :NumPy, Pandas, Scikit-learn, TensorFlow/PyTorch, JupyterLab, OpenCV
- **Deployment: AWS ,GCP (cloud platforms).**
- **Data Warehousing: MySQL, PostgreSQL**
- **Version Control**: Git ,Github
- **Other libraries/tools/frameworks/technologies: React,node.js,embedded systems,Django/flask, compiliers, Tableau, Power BI.**

PROFESSIONAL EXPERIENCE

Data Analyst / Machine Learning Engineer | **May** 2022 - Present

Upwork, Remote

Detecting AI Cheating in Video Interviews:

- Developed custom machine learning algorithms to analyze candidate behavior during video interviews, detecting anomalies and potential cheating behaviors.
- Implemented computer vision techniques and natural language processing (NLP) models to assess facial expressions, speech patterns, and response consistency for accurate cheating detection.

AI Developer for Medical Billing:

- Designed and implemented AI-driven solutions to automate medical billing processes, reducing manual errors and improving billing accuracy.
- Leveraged machine learning algorithms to analyze medical codes, patient records, and billing data for efficient claims processing and revenue cycle management.

Predicting Stock Market Using Deep Learning:

- Built deep learning models using recurrent neural networks (RNNs) and long short-term memory (LSTM) networks to forecast stock market trends and predict price movements.
- Integrated sentiment analysis of news articles and social media data into predictive models to capture market sentiment and enhance stock price predictions.

NATIONAL CENTER FOR ARTIFICIAL INTELLIGENCE AND ROBOTICS (NCAIR)

Data Analyst/Machine Learning Facilitator **September 2023 – Present**

- Developed and delivered comprehensive machine learning and AI curriculum for both intermediate and advanced levels of expertise.

- Designed instructional materials, including lectures, presentations, and hands-on exercises, to effectively convey complex concepts to students.
- Provided guidance and mentorship to students, facilitating their understanding and application of advanced machine learning algorithms and techniques.
- Collaborated with subject matter experts to ensure the curriculum remains up-to-date with the latest advancements in the field.
- Evaluated student performance through assessments, projects, and exams, providing constructive feedback to support their learning and development.
- Organized workshops, seminars, and guest lectures to enhance students' exposure to cutting-edge research and industry trends in AI and machine learning.
- Contributed to the development of certification programs and accreditation standards to establish NCAIR as a reputable institution for AI education and training.
- Engaged in continuous professional development to stay abreast of emerging technologies and pedagogical best practices in AI education.
- Acted as a representative of NCAIR in promoting the institute's mission and programs to external stakeholders, including government agencies, industry partners, and academic institutions.
- Played a key role in fostering a collaborative and inclusive learning environment that encourages innovation, critical thinking, and interdisciplinary collaboration.

PROJECTS

Project: prep-AI (Edutech AI App)

1. Web Development

- Designed and developed user-friendly interfaces for students to access study materials and practice tests seamlessly.
- Implemented responsive design principles for optimal user experience across devices, enhancing accessibility and engagement.

2. Embedded Systems:

- Integrated LLMs (Large Language Models) and OCRs (Optical Character Recognition) into the app's backend for advanced question-solving capabilities and content extraction.
- Optimized resource utilization and performance of embedded systems to ensure smooth operation of AI functionalities on diverse hardware platforms.

3. Machine Learning:

- Utilized machine learning algorithms to personalize study recommendations and practice questions based on individual learning patterns and performance metrics.
- Implemented NLP (Natural Language Processing) techniques to analyze and generate insights from user-generated content, enhancing the app's adaptive learning features.

Project: Wahya (FinTech App)

1. Frontend Web Development:

- Created intuitive and secure user interfaces for seamless payment processing and installment tracking functionalities.
- Implemented real-time data visualization components to provide users with comprehensive insights into their financial transactions.

2. Embedded Systems:

- Integrated blockchain technology to securely store all transaction data, ensuring transparency and immutability of payment records.
- Implemented smart contract functionalities for automated installment payment schedules and escrow services, enhancing trust and reliability in transactions.

Project: ZIPcycle (CleanTech App)

1. Web Development:

- Designed interactive interfaces for users to track their recycling activities, view token/coupon rewards, and access educational resources on sustainable waste management.
- Implemented gamification elements to encourage user participation and promote recycling behaviors.

2. Embedded Systems:

- Integrated blockchain technology to store all recycling data securely and transparently, facilitating rewards distribution and tracking recycling contributions.
- Implemented IoT (Internet of Things) sensors for accurate measurement and categorization of recyclable materials, optimizing token/coupon allocation based on material type and weight.

3. Machine Learning:

- Developed machine learning models to classify and sort recyclable materials automatically, improving efficiency in waste processing and recycling operations.
- Utilized predictive modeling to forecast demand for recycled materials and optimize token/coupon redemption options for users, fostering sustainable recycling practices.

EDUCATION/CERTIFICATIONS

- **BEng. Electronics and Computer Engineering.**
- **Google Professional Data Analysis Certificate,** Google.
- **GDG Member, AWS Community Builder**
- **AWS CLOUD COMPUTING – IN PROGRESS.**