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Abhishek Singh

Data Scientist

SUMMARY

"Data Scientist with a strong **Electrical Engineering** foundation, skilled in IoT, machine learning, and predictive modeling. Currently pursuing a **Master's in Data Science**, specializing in AI and neural networks. Adept at leveraging technical expertise to optimize systems, drive innovation, and solve complex data-driven challenges."

Technical Skills

Tools & Technologies: Python, TensorFlow, Keras, Scikit-learn, SQL

Machine Learning and AI: Logistic Regression, Decision Trees, Neural Networks (ANN, CNN, RNN), Generative AI, NLP,LLM

Data Analysis & Visualization: Proficient in Pandas, NumPy, Matplotlib, Seaborn, and SQL for uncovering insights

Data Collection & Preprocessing: Expertise in gathering, cleaning, and transforming data from IoT systems and databases for analysis

Soft Skills: Problem-Solving, Analytical Thinking, Team Collaboration, Communication Skills.

WORK EXPERIENCE

Project Engineer
Sep '22 - Present

CMS Computers Limited (INDIA)
Mumbai,India

- Spearheaded **data collection** and **preprocessing** for energy management systems (EMS), improving data quality and system efficiency by 20%.
- Developed and deployed **predictive models** to optimize EMS/IoT solutions, which increased operational efficiency by 10%.
- Led a team to implement **real-time data monitoring** solutions for over 100+ IoT devices, enhancing **system reliability** and **data accuracy** by 15%.
- Collaborated with stakeholders to identify business challenges and applied **data-driven insights** to design solutions that improved client satisfaction.
- Integrated **machine learning models** into EMS for predictive maintenance, reducing downtime by 12% and saving operational costs.
- Applied advanced skills in PostgreSQL and Informix to optimize SQL queries for enhanced performance, specializing in **SQL query writing**, impactful data modeling, and efficient database management within the Energy sector

Quality Engineer
Jan '20 - Sep '22

Gem Spright Electricals & Automation Pvt Ltd
Bhiwandi,Mahatashtra

- Performed quality checks on over 50 industrial panels, ensuring adherence to safety standards and reducing defects by **15%.**
- Designed AutoCAD schematics, integrating data monitoring systems and **boosting efficiency by 20%**, leading to enhanced system performance.

Trainee Engineer
Oct '18 - Oct '19

MICROTROL Sterilisation Services Pvt Ltd
Gujrat,India

- Ensured system reliability by analyzing performance data, achieving a **98% uptime rate** using Excel for data analysis
- Implemented predictive maintenance strategies utilizing **condition monitoring and root cause analysis**, resulting in a 10% reduction in downtime
- Drove a 20% increase in efficiency by optimizing processes through **effective team collaboration.**

Automation Engineer
Sep '17 - Oct '18

Shree Vinayak Automation Pvt. Ltd

- Elevated protection by 20% and **prolonged equipment lifespan by 10%** in LV switchgear projects involving MCB, MCCB, ACB, and VCB

- Devised feeder lists and AutoCAD diagrams, ensuring **100% compliance** and optimizing system design for **15+ projects**, delivering on-time client solutions

EDUCATION AND TRAINING

Master's in Data Science(Expected Start: January 2025)

Liverpool John Moores University(In collaboration with Upgrad)

- Focus on advanced AI, machine learning, neural networks, data analysis, and statistical modeling.

Post Graduation Certification in Data Science
Jul '23 - Aug '24

IIIT Bangalore & upGrad
Mumbai,India

- **Course Modules:**
  - Data Analysis in Excel | Analytics Problem Solving | Data Analysis using SQL | Introduction to Python
  - Programming in Python | Python for Data Science | Inferential Statistics | Hypothesis Testing
  - Introduction to Machine Learning and Linear Regression | Logistic Regression | Tree Models
  - Neural Networks (ANN, CNN, RNN) | LSTM | Deep Learning Architectures |NLP
  - Generative AI Tools:Autoencoders | Variational Autoencoders (VAE)
  - Generative Adversarial Networks (GANs)

Bachelor of Engineering (B.E.) in Electrical Engineering

Yadavrao Tasgaonkar Institute of Engineering and Technology(2013-2017)
Mumbai, India

CGPA: 7.15

PROJECTS

Capstone Project: Eye for Blind
Aug '24 - Sep '24

- **Technologies Used**: TensorFlow, Keras, Google Text-to-Speech (gTTS), InceptionV3, Python (NumPy, Pandas, Matplotlib, Seaborn), NLTK, Scikit-learn.

Key Contributions:

- Preprocessed data for compatibility with InceptionV3 and created tokenized vectors.
- Built a CNN-RNN model with an encoder-decoder structure and attention mechanism.
- Applied transfer learning for feature extraction and evaluated with BLEU scores.
- Enabled real-time caption-to-speech conversion to assist visually impaired users.