ANEESH BK Data Scientist | AI | ML

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PROFILE

Motivated data scientist 8+ years of industrial experience with 4+ years of relevant experience in machine learning and data analysis. Skilled in Python, SQL, and statistical analysis. Seeking to leverage my skills and experience to make an impact as a Data scientist/AI/ML at a forward-thinking company.

SKILLS

Programming — Python │ **Framework and libraries** — pandas | numpy | scikit-learn | Tensorflow | PySpark | OpenCV │
Database — SQL │ **Data Visualization** — matplotlib | seaborn | Power BI │ **Mathematics** — Descriptive statistics | Inferential statistics │ **Machine learning** — Linear Regression | Logistic Regression | Decision Trees | Random Forest | XGBoost | SVM | KNN | K-means | Time series forecasting | Statistical modeling │ **Cloud platform** — AWS | Sagemaker │ **Additional programming skills** — PLC | SCADA | RTU | VFD | HMI │ **Other** — Problem solving | Communication | Presentation │ **Hardware** — IIoT Sensors

PROFESSIONAL EXPERIENCE

Data Scientist   Jul 2024 – Aug 2024 │ Bangalore, India
Valenta ⧉
- Led and managed an analytics team, effectively delegating tasks to developers and ensuring timely delivery of projects.
- Facilitated the integration and demonstration of data within the Plex ERP tool, tailoring it for client-specific demo purposes.
- Certified Domo Partner, leveraging expertise in Domo's ETL pipelines, dashboard creation, and AutoML capabilities to deliver data-driven insights.
- Actively participated in client meetings, translating complex technical concepts into actionable business strategies.

Data scientist   Dec 2023 – Jun 2024 │ Ahmedabad, India
infinivisglobal (Cyberevolve onsite) ⧉
- Managed SIEM solutions to collect, analyze, and correlate security events from various sources.
- Development and maintained custom SIEM rules and correlation queries to detect and respond to security incidents.
- Conducted regular reviews of SIEM alerts, fine-tuning rules to improve accuracy and reduce false positives.
- Collaborated with cross-functional teams to integrate additional data sources into the SIEM for comprehensive threat detection.
- Developed UEBA (User and entity behaviour analysis) system.

Data Scientist   Nov 2019 – Oct 2023 │ Dubai, United Arab Emirates
C3 Automation
- Supporting data engineering team for collecting data from PLC,SCADA and IIoT sensors.
- Conducted data preprocessing and feature engineering
- Developed and deployed machine learning models and optimize model performance for manufacturing industry different applications.
- Developed statistical modeling.
- Developed custom machine learning models using python, scikit-learn, and TensorFlow for various predictive tasks, including demand forecasting and anomaly detection.
- Collaborated with cross-functional teams to identify business needs, define project scopes, and translate them into data science solutions.
- Presented actionable insights and data-driven recommendations to senior management, influencing strategic decisions.
- Utilized data visualization tools (e.g., Matplotlib, Seaborn, PowerBI) to create informative dashboards and reports, enhancing data accessibility and decision-making.
- Communicated complex technical concepts to a variety of audiences, including business stakeholders, technical teams, and non-technical staff, through written documentation and data-driven presentations.

Senior Application Engineer   Jun 2016 – Nov 2019
C3 Automation   Dubai, United Arab Emirates
- Lead the design, development, and implementation of industrial automation solutions.
- Collaborate with clients to define project requirements and provide technical guidance, resulting in successful project completion and high client satisfaction.
- Program PLCs and develop HMIs using Schneider Electric, Rockwell Automation, B&R Automation. Ensuring smooth automation system operation and adherence to safety standards.
- Conduct comprehensive testing and commissioning of automation systems
- Manage multiple automation projects simultaneously, meeting project timelines and budgets.
- Provide technical support to clients during system implementation and troubleshoot issues promptly, minimizing production disruptions.
- Maintain detailed project documentation, including design specifications, control logic, and system configurations, facilitating future upgrades and troubleshooting.

Automation Engineer   Jul 2015 – Mar 2016 | Kochi, India
IPCS automation

- Assisted in the design and development of industrial automation solutions.
- Collaborated with senior engineers to program PLCs and develop HMIs using Rockwell, Schneider Electric, Delta ensuring the efficient operation of automated systems.
- Conducted testing and commissioning of automation systems, assisting in the startup and optimization of production processes.
- Provided technical support during system implementation and maintenance, troubleshooting issues to minimize production disruptions.
- Assisted in documenting project specifications, control logic, and system configurations to facilitate future upgrades and maintenance.

ML PROJECTS

Predictive maintenance - (Factory floor)
Client name :UNION PAPER MILLS
Objectives : Predictive maintenance is a type of maintenance that directly tracks an asset's health, status, and performance in real time. Predictive maintenance is aimed at reducing costly, unexpected breakdowns and offers the manufacturer the opportunity to plan maintenance around their own production schedule.

- **Tools :** Python | Kafka | Influx DB | Grafana | Scikit-learn | Numpy | Pandas | Flask | AWS (Sagemaker | EC2)
- **Hardware used :** IoT dedicated sensors.

Responsibilities:

- Developed and deployed an end-to-end predictive maintenance solution using Python, IoT sensors, and cloud services.
- Ingested real-time data from IoT sensors via Kafka and stored it in InfluxDB for analysis.
- Utilized Grafana for real-time data visualization and monitoring of asset health.
- Implemented machine learning models using Scikit-learn for anomaly detection and fault prediction.
- Processed and analyzed data with Numpy and Pandas to identify patterns and trends in asset performance.
- Created a user-friendly web interface for maintenance scheduling and alerts using Flask.
- Deployed the solution on AWS, utilizing SageMaker for model training and EC2 for hosting the web application.

Key Impact:

- Significantly reduced unplanned downtime, leading to increased production efficiency.
- Enabled predictive maintenance planning, resulting in cost savings and improved asset longevity.
- Demonstrated proficiency in utilizing a wide range of data science and IoT technologies to solve real-world manufacturing challenges.

Optimization of Production Processes (Pharmaceutical Manufacturing)
Client name : GULF PHARMACEUTICAL INDUSTRIES JULPHAR CO PUBLIC JSC
Objective: To analyze production data in the pharmaceutical manufacturing industry and identify opportunities for improving efficiency, quality control, and resource utilization.

- **Tools :** LIMS | MES | MySQL | Python |Numpy | Pandas | Scikit-learn | Power BI | AWS(Hybrid deployment)

Responsibilities:

- Leveraged Laboratory Information Management Systems (LIMS) and Manufacturing Execution Systems (MES) for data collection and monitoring.
- Developed and managed a relational database in MySQL to store and organize production data.
- Utilized Python, Numpy, and Pandas for data preprocessing, cleaning, and feature engineering.
- Applied machine learning techniques from Scikit-learn to identify trends, anomalies, and areas for improvement in production processes.
- Created interactive and visually insightful reports using Power BI to communicate key findings to stakeholders.
- Deployed a hybrid cloud solution on AWS, facilitating scalable data processing and analysis.

Key Impact:

- Substantially improved production efficiency and resource utilization, resulting in cost savings.
- Enhanced product quality control through data-driven process improvements.
- Demonstrated proficiency in utilizing a diverse set of technologies to drive data-driven decision-making in the pharmaceutical manufacturing sector.

EDUCATION

MBA- Analytics and Data Science   May 2023 – Jun 2025 | Jaipur, India
Manipal University Jaipur

B.tech / Electrical and electronics engineering   Aug 2011 – Apr 2015 | Kasaragod, India
Lbs college of engineering