Saurbh Aradwad

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SUMMARY

Innovative Senior Digital Engineer with 5+ years of experience in AI and ML, notably enhancing chat response efficiency by 80% at Sonata Software Ltd. Led deployment of an Azure AI Studio for prompt engineering, achieving project goals 30% early and increasing operational efficiency by 50% through collaboration. Seeking a Machine Learning and AI Engineer role to leverage leadership in AI development and Azure expertise, driving continuous innovation and performance improvements.

SKILLS

Languages: Python, PostgreSQL, MySQL

Machine Learning: Liner & Logistic Regression, Decision Trees, Random Forest, XGboost, KNN, SVM, k-means Clustering

Deep Learning : ANN, CNN, RNN, LSTM, GRU, BERT, GPT

LLMs: GPT4, GPT4o, GPT3.5 Turbo, Mistral, Llama, Embedding Models, LLM Evaluations

ML Operations: Model registry, Inference pipelines, Deployment, real-time and batch end-points, Webhooks, Containerization, Git, DevOps

Frameworks: NumPy, Pandas, SciPy, Matplotlib, Seaborn, SciKit-Learn, Pytorch, TensorFlow, Keras, Langchain, PromptFlow

Cloud: AWS Sagemaker Studio, Azure AI Services, Azure AI Foundry, Azure ML Studio,GCP Dialogflow,

Others: Code reviews, Unit testing, packaging, secure coding

Soft Skills: Leadership, Strategic Planning, Problem-solving, Decision Making, Critical Thinking, Analytical Skills, Innovative Thinking, Communication Skills

EXPERIENCE

Senior Digital Engineer

Sonata Software Ltd.   September 2023 - Present，Bangalore, Karnataka
- Engineered and deployed cutting-edge LLM-driven solutions utilizing GPT models, achieving a significant reduction in response processing time by 80%.
- Collaborated with cross-functional teams to integrate AI solutions into existing systems, achieving a 50% increase in operational efficiency and improved model accuracy, model performance by 35%.
- Mentored junior engineers in AI best practices, leading to a improvement in team productivity and project delivery timelines.
- Developed and maintained comprehensive documentation for AI projects, enhancing knowledge transfer and reducing onboarding time for new team members by 80%.
- Trained and mentored junior engineers on best practices for utilizing Azure AI Services, fostering a culture of continuous learning and improvement within the team.
- Conducted thorough code debugging in for technical issues in Azure Cognitive Services, Azure Open AI, and Azure ML components, improving client satisfaction.
- Spearheaded deployment of Azure AI Studio with a team of 7 engineers, accelerating project timelines by 30% using Agile methodologies.

Machine Learning Engineer

JDIT Business Solutions Pvt Ltd   June 2020 - September 2023，Pune, Maharashtra
- Optimized machine learning pipelines achieving an 85% increase in performance efficiency for sector-specific analytics and data science projects.
- Implemented cutting-edge algorithmic solutions for model training and validation, attaining predictive accuracy exceeding 90% in applied scenarios.
- Leveraged advanced statistical techniques within Python to convert complex data models into practical insights, facilitating data-driven decisions in a global context, resulting in a 30% improvement in client reporting accuracy.
- Implemented end-to-end ML solutions in a cloud-native environment using AWS SageMaker, increasing model lifecycle management efficiency by 25%.
- Architected scalable machine learning pipelines that improved data processing efficiency by 50%, utilizing Python, TensorFlow, and PyTorch, and ensuring seamless deployment into the cloud environment.
- Authored comprehensive English documentation for machine learning solutions, ensuring clear communication and facilitating smooth collaboration across global development teams.

Design Engineering Consultant

Tata Consulting Engineering (TCE)   October 2019 - May 2020，Airoli, Maharashtra
- Utilized AVEVA E3D software skills to enhance unit design processes, elevating project deliverables' accuracy by 25%.
- Improved extraction efficiency by 30% through designing automated procedures for identification using AVEVA E3D and LFM integration.
- Utilized AVEVA E3D to develop 3D models for piping support systems, enhancing spatial accuracy and project outcomes by 20%.

PROJECT

Review Analyzer For Amazon
- Implemented sentiment analysis algorithms via Python's NLP libraries to provide actionable intelligence, demonstrating a 25% boost in seller performance when strategies adjusted accordingly.
- Enhanced review analysis capabilities by incorporating sophisticated vectorization and NLP techniques, leading to a 35% improvement in product listing optimization for retail sales.

• Engineered a sophisticated review analyzer leveraging advanced sentiment analysis and machine learning algorithms, elevating review accuracy by 40% and improving actionable insights for seller strategies.

ChatBot for Supportability
• Integrated a Supportability troubleshooting guide into a chat interface, enhancing user experience and accessibility of support resources.
• Utilized GPT-4 LLM along with langchain for critical reasoning, resulting in more accurate troubleshooting outcomes and improved user satisfaction.
• Implemented vector embedding techniques from OpenAI's Ada model to suggest relevant solutions from previous cases, increasing overall support efficiency to 100%..

Resume Re-ranker
• Constructed a scalable vector database utilizing OpenAI embeddings and NLP, achieving a 70% increase in resume data retrieval speed.
• Implemented Langchain with GPT-4 for the construction of a chat platform, effectively identifying relevant resumes with a 95% retrieval accuracy.
• Optimized candidate matching efficiency for human resource team by implementing advanced algorithms, resulting in a 30% improvement in processing accuracy using Python and ML frameworks.

EDUCATION

M.Tech Artificial Intelligence and Machine Learning
BITS Pillani • 10/2023 - Present

B.E. Mechanical Engineer
Sinhgad Institute of Technology & Science, Pune • 06/2013 - 06/2017
• Frist Class with Distinction.

CERTIFICATIONS

Microsoft Azure ML Engineer
2023