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PROFESSIONAL SUMMARY:

- Around 10 years of professional experience in all phases of the software development life cycle including requirements analysis and Debugging, Applications Design, Development, Integration, Maintenance, Installation, and Testing of various clients/servers as per Enterprise standards
- Experience in developing ML infrastructure and MLOps in the Cloud using AWS Sage maker, LLM, and Generative AI.
- Experience integrating GenAI models with existing enterprise applications and workflows
- Deep understanding of both front-end and back-end technologies, including languages like JavaScript, Python, Java, HTML, CSS, and frameworks such as React, Angular, Node.js, and Django.
- Expertise in database management systems, both relational (SQL) and non-relational (NoSQL), such as MySQL, PostgreSQL, and MongoDB.
- Experience in building, training, fine-tuning, and deploying Deep Learning Models/LLMs/ML Models
- Skilled in designing, developing, and integrating RESTful and GraphQL APIs, ensuring efficient communication between different parts of the application.
- Experience with DevOps practices, continuous integration, and continuous deployment (CI/CD) tools like Jenkins, Travis CI, Docker, and Kubernetes for streamlined and automated software delivery.
- Proficiency in deploying and managing applications on cloud platforms such as AWS, Google Cloud Platform, or Microsoft Azure.
- Strong analytical and problem-solving abilities, with a proven track record of identifying and resolving complex issues in both development and production environments.
- Familiarity with Agile and Scrum methodologies, with experience in leading and managing projects, ensuring timely delivery and effective team collaboration.
- Knowledge of security best practices and implementation, including authentication, authorization, encryption, and data protection to ensure the integrity and security of applications.
- Advanced use of version control systems, primarily Git, for effective collaboration and version management in software development projects.
- Knowledge of security best practices and implementation, including authentication, authorization, encryption, and data protection to ensure the integrity and security of applications.

- Excellent communication, teamwork, and leadership skills, capable of mentoring junior developers, collaborating with cross-functional teams, and effectively translating business requirements into technical solutions.

Technical Skills:

IDE Tools	VisualStudio Code (VS Code), IntelliJ IDEA, Eclipse, Atom, IntelliJ, Sublime Text, Jupyter Notebook
Languages	Java, J2EE, NodeJS, Python
Web Development	HTML5, CSS, JavaScript
Databases	PL/SQL(Oracle), MySQL, NoSQL, Mongo DB, GraphQL
Vector Database	Pinecone, ChromoDB, CosomsDB, Faiss, Solor,OpenSearch,Milvus,ElasticSearch
Servers	Apache Tomcat, HTTP Web Server, Ngnix
Operating Systems	MacOS, Windows, Linux
Frameworks	Django, React, Angular, Express.js, Spring, Flask, FastAPI, Bootstrap
Machine Learning	TensorFlow, PyTorch, Scikit-learn, Keras, Numpy, Pandas, XGBoost, LightGBM, OpenCV, YOLO, MLLib
Artificial intelligence	Hugging Face Transformers, OpenAI, LangChain, Google Gemini, Hugging Face Models, Llama
Cloud	GCP, AWS, AZURE
Big Data	Hadoop,Apache Spark,Apache Kafka,Apache Hive,Google BigQuery,Data Lake,Apache Flink
Version Control Systems	Git,BitBucket,GitLab
Container Tools	Docker, Kubernetes, ACS, AKS, EKS
Logging and Data Analytics	Prometheus,Grafana,Datadog, ELK
ETL Tools	Databricks,Snowflake ,Azure Data Factory,AWS Glue,Informatica,Apache Airflow,Kinesis
InfraStructure Tools	Terraform,Ansible

Educational Experience:

- Masters of Science in Computer Science, SFBU,2015
- Bachelor of Technology from GIITS, 2013

PROFESSIONAL EXPERIENCE:

TechForce Services/Nsw Public Transport   **Sanjose,CA,Remote**

Gen AI Engineer   **Oct'23 to Present**

Responsibilities:

- Design, develop, and maintain advanced AI models for conversational agents, ensuring they provide meaningful and contextually relevant interactions that enhance user experience and satisfaction.
- Implement and optimize the Retrieval-Augmented Generation (RAG) algorithm, focusing on improving the model's ability to generate informed and contextually appropriate responses in real-time.
- Collaborate with data scientists and engineers to integrate machine learning models seamlessly into existing systems, ensuring compatibility and enhancing overall system performance and user engagement.
- Conduct rigorous testing and validation of AI models, utilizing various evaluation metrics to ensure their effectiveness, accuracy, and robustness in real-world applications and scenarios.
- Stay updated with the latest industry trends and advancements in AI technologies, actively seeking opportunities to implement cutting-edge solutions that improve model performance and capabilities.
- Document all model development processes comprehensively, ensuring clarity and understanding for stakeholders while facilitating knowledge transfer and future enhancements within the organization.
- Present model outcomes and development processes to stakeholders at various levels, effectively communicating technical concepts and results to ensure alignment with business objectives and strategies.
- Collaborate with UX/UI designers to enhance conversational interfaces, ensuring that AI models provide intuitive and engaging interactions that meet user needs and expectations.
- Develop strategies for continuous model improvement, incorporating user feedback and performance data to refine AI models and enhance their relevance and accuracy over time.
- Implement monitoring systems to track model performance post-deployment, identifying potential issues early and enabling prompt adjustments to maintain high levels of effectiveness.

- Conduct exploratory data analysis to identify trends and patterns in user interactions, leveraging insights to inform model adjustments and improve overall conversational experiences.
- Create training data pipelines to streamline the data collection and preprocessing processes, ensuring high-quality input data for effective model training and evaluation.
- Utilize cloud computing resources for model training and deployment, optimizing resource usage and scalability to accommodate varying workloads and user demands efficiently.
- Ensure compliance with data privacy and ethical standards throughout the model development lifecycle, addressing potential biases and ensuring fairness in AI-generated responses.
- Collaborate with product managers to align AI model development with business goals, ensuring that solutions deliver tangible value and meet user expectations effectively.
- Develop user guides and technical documentation for AI models, providing clear instructions for stakeholders and end-users to understand functionalities and use cases effectively.
- Facilitate knowledge sharing sessions within the team, promoting best practices in AI model development, deployment, and maintenance to enhance team capabilities and expertise.
- Evaluate and benchmark alternative AI technologies and frameworks, assessing their potential for integration into existing systems to enhance overall functionality and performance.

TechForce Services/SalesForce	India,Remote

Machine Learning Engineer	May''22 - Sep'23

Responsibilities:

- Design, build, and deploy machine learning models within the proposed platform, ensuring optimal performance and scalability to meet diverse business requirements and user demands effectively.
- Collaborate with Data Scientists and Data Engineers to implement feature stores, manage models through MLOps, and integrate Explainable AI (XAI) capabilities into machine learning workflows.
- Monitor and optimize the performance of deployed models, ensuring they consistently meet established business requirements and performance standards while adapting to changing data conditions.
- Support model management, versioning, and deployment workflows to streamline the operationalization of machine learning models, enhancing efficiency and effectiveness in delivering AI solutions.
- Engage directly with customers to understand their specific business problems, providing tailored machine learning solutions that address their unique challenges and drive measurable results.

- Deliver machine learning projects end-to-end, including understanding business needs, planning projects, aggregating and exploring data, building and validating predictive models, and deployment on AWS Cloud.
- Utilize deep learning frameworks such as PyTorch and TensorFlow to build advanced computer vision models capable of handling versatile applications across various industries and domains.
- Work with large-scale datasets, creating scalable, robust, and accurate computer vision systems that can effectively process and analyze complex visual data for insights.
- Collaborate with Cloud Architects to design and build secure, robust, and easy-to-deploy cloud-native machine learning solutions that adhere to best practices and security protocols.
- Work closely with customer account teams and product engineering teams to optimize model implementations, ensuring the deployment of cutting-edge algorithms that maximize performance and utility.
- Assist customers with Machine Learning Operations (MLOps) workflows, providing guidance on model deployment, retraining, testing, and performance monitoring to ensure continuous improvement.
- Apply best practices from core software development activities to machine learning, ensuring practices such as deployability, unit testing, and structured, extensible software development are followed.
- Conduct regular performance evaluations of machine learning models, identifying areas for improvement and implementing necessary adjustments to enhance overall accuracy and effectiveness.
- Create comprehensive documentation for machine learning processes, ensuring clear communication of methodologies, results, and best practices for stakeholders and team members alike.
- Foster a culture of innovation by staying current with industry trends and advancements in machine learning, continuously exploring new techniques and tools to enhance project outcomes.

USAA	Aug'21 - April'22
Machine Learning Engineer	Plano,Texas

Responsibilities:

- Develop and maintain automated testing frameworks for machine learning models, ensuring consistent validation of performance and reliability across various deployment environments and use cases.
- Participate in code reviews and knowledge-sharing sessions within the team, promoting best practices in model development and fostering a collaborative and innovative work environment.

- Create and implement strategies for data preprocessing and feature engineering, ensuring high-quality input data that enhances model performance and improves predictive capabilities.
- Collaborate with stakeholders to define success metrics and key performance indicators (KPIs) for machine learning models, aligning project goals with business objectives and expected outcomes.
- Integrate advanced analytics and data visualization tools into machine learning projects, providing stakeholders with actionable insights and facilitating data-driven decision-making processes.
- Lead training sessions and workshops for team members and clients, enhancing their understanding of machine learning concepts and methodologies to empower their project contributions.
- Utilize version control systems for managing model code, ensuring traceability and enabling seamless collaboration among team members throughout the model development lifecycle.
- Implement robust security measures for machine learning models and data, safeguarding sensitive information and ensuring compliance with industry regulations and organizational policies.
- Conduct exploratory data analysis to uncover patterns and trends, informing model design and development decisions while enhancing the overall understanding of the data landscape.
- Collaborate with DevOps teams to establish CI/CD pipelines for machine learning model deployment, automating processes to increase efficiency and reduce time-to-market for AI solutions.
- Mentor junior data scientists and machine learning engineers, providing guidance and support in their professional development while fostering a culture of continuous learning within the team.
- Evaluate and compare different machine learning algorithms and frameworks to identify the most suitable solutions for specific projects, optimizing performance and resource utilization.
- Facilitate regular stand-up meetings and progress updates to ensure alignment among team members, track project milestones, and address any potential roadblocks promptly.
- Design user-friendly interfaces for model interaction, enabling non-technical users to leverage machine learning capabilities effectively and enhancing overall user experience.
- Gather and analyze user feedback post-deployment, utilizing insights to refine machine learning models and improve functionality, ultimately driving greater user satisfaction and engagement.

Cepheid INC	Feb'20-May'21
Data Analyst	**Sunnyvale, CA**

Responsibilities:

- Assist data product owners in defining and refining requirements for new data products, ensuring alignment with business goals and facilitating successful project outcomes and stakeholder satisfaction.
- Translate business needs into detailed technical specifications for data products, ensuring they deliver meaningful insights and value to end users while addressing specific organizational challenges.
- Provide expertise in data analysis and visualization to enhance the functionality and impact of data products, enabling users to derive actionable insights from complex datasets.
- Manage and curate metadata effectively, ensuring that data is easily accessible, understandable, and usable for analysis while promoting transparency and consistency in data usage.
- Implement metadata standards and best practices to enhance data discoverability and usability, fostering an environment where users can efficiently find and utilize relevant information.
- Collaborate with data governance teams to ensure metadata aligns with data quality, privacy, and compliance standards, minimizing risks and enhancing trust in data assets.
- Develop and maintain comprehensive source-to-target mappings for data integration projects, ensuring a clear understanding of data flow and transformations throughout the integration process.
- Ensure accurate translation of data from source systems to target databases, aligning with business logic and requirements while maintaining data integrity and reliability throughout the process.
- Assist in the design of data products, developing solutions that provide actionable insights and support strategic decision-making across various business units and operational areas.
- Create comprehensive documentation and guides for datasets and data products, making them accessible and understandable to a wide range of users with varying technical expertise.
- Conduct training sessions and workshops aimed at enhancing data literacy across the organization, empowering employees to leverage data effectively for informed decision-making and operational success.
- Collaborate with cross-functional teams to gather feedback on data products, ensuring continuous improvement and alignment with evolving business needs and user expectations.

- Monitor and evaluate the performance of data products, utilizing user feedback and analytics to identify areas for enhancement and optimize overall functionality and usability.
- Advocate for data-driven decision-making within the organization, promoting the value of data products and fostering a culture that prioritizes analytical thinking and insight generation.
- Facilitate discussions and brainstorming sessions with stakeholders to identify emerging data needs, ensuring the organization remains agile and responsive to changing market dynamics and business priorities

AT&T	**May'17–Dec'19**

AngularJS Developer	**SanRoman, CA**

Responsibilities:

- Develop robust web applications while ensuring a comprehensive understanding of both frontend and backend technologies to create seamless user experiences and efficient data management.
- Utilize AngularJS and Angular 2+ to build responsive and dynamic user interfaces, ensuring high performance and smooth interactions for enhanced user satisfaction and engagement.
- Write clean, maintainable, and efficient code using JavaScript, CSS3, and HTML to implement visual elements and functionality that meet project specifications and client requirements.
- Collaborate with designers and backend developers to create cohesive web applications, ensuring that the frontend design integrates seamlessly with backend services and APIs.
- Implement responsive design principles using Bootstrap and other UI development toolkits/frameworks, optimizing applications for various devices and screen sizes while maintaining a consistent look and feel.
- Conduct code reviews to ensure best practices in frontend development are followed, promoting maintainability, reusability, and adherence to coding standards within the development team.
- Troubleshoot and debug frontend issues efficiently, utilizing browser developer tools to identify and resolve performance bottlenecks and user interface inconsistencies promptly.
- Stay updated with the latest trends and advancements in frontend technologies, applying new knowledge to improve application performance and user experience continuously.
- Optimize web applications for maximum speed and scalability, implementing techniques such as lazy loading, code splitting, and minimizing HTTP requests to enhance performance.
- Create and maintain comprehensive documentation for frontend components and functionalities, ensuring that team members can easily understand and utilize developed features and modules.
- Participate in agile development processes, attending daily stand-ups, sprint planning, and retrospectives to collaborate effectively with the development team and stakeholders.

- Leverage version control systems like Git to manage code changes, ensuring collaboration among team members while maintaining a clear history of project developments and iterations.
- Engage in user acceptance testing (UAT) to gather feedback on application usability, making necessary adjustments to improve user satisfaction and align with business goals.
- Foster communication between frontend and backend teams, ensuring that all components of the application function harmoniously and adhere to architectural guidelines and performance standards.
- Mentor junior developers in frontend technologies and best practices, sharing knowledge and encouraging a culture of learning and collaboration within the development team

Daugherty Business Solutions	Jan'16 to Mar'17
Java backend developer	**St. Louis, Missouri**

Responsibilities:

- Design and develop scalable web applications using Java and JavaScript frameworks, particularly AngularJS, ensuring optimal performance and a responsive user interface for end users.
- Leverage core Java development skills to implement efficient algorithms and data structures, focusing on multi-threading and synchronization to enhance application performance and responsiveness.
- Utilize Java collections, streams, and JDBC to manage data efficiently, enabling seamless database interactions and robust data handling within enterprise applications.
- expertise in Java UI technologies, including HTML5, AngularJS, BackboneJS, and Bootstrap, to create visually appealing and user-friendly web interfaces.
- Integrate and utilize Java profiling tools to monitor application performance, identify bottlenecks, and optimize resource usage, contributing to improved system efficiency.
- Implement and manage frameworks like Spring, Spring Boot, and MyBatis to streamline application development, enhance modularity, and facilitate integration with various data sources.
- Develop and enforce security best practices for AWS services, focusing on IAM, KMS, and CloudTrail to safeguard applications and protect sensitive data effectively.
- Build and maintain continuous integration and continuous deployment (CI/CD) pipelines using AWS services like CodePipeline and CodeBuild, ensuring rapid and reliable software delivery.
- Design and implement serverless applications leveraging AWS Lambda and Step Functions, optimizing resource allocation and minimizing operational overhead for scalable solutions.
- Develop automated backup and disaster recovery solutions utilizing AWS services such as EBS and S3, ensuring data integrity and availability in case of system failures.

- Collaborate with cross-functional teams to gather requirements and translate business needs into technical solutions, ensuring alignment between development efforts and organizational goals.
- Conduct code reviews to ensure best practices and coding standards are upheld, promoting maintainability and enhancing the overall quality of the codebase.
- Engage in troubleshooting and debugging activities to resolve technical issues swiftly, ensuring minimal disruption to application performance and user experience.
- Stay current with emerging technologies and industry trends, applying new knowledge to enhance application design and development processes continuously.
- Mentor junior developers in Java and AWS best practices, fostering a culture of knowledge sharing and professional growth within the development team

Lyse info Global Solutions pvt ltd   **July'13-April'14**

JavaScript Developer   **Mumbai**

Responsibilities:

- Develop responsive and user-friendly web interfaces using HTML, CSS, and jQuery, ensuring a seamless experience across various devices and screen sizes for end users.
- Write clean, maintainable, and efficient JavaScript code to enhance interactivity and dynamic functionality within web applications, improving overall user engagement and satisfaction.
- Communicate effectively with internal stakeholders and external customers, fostering strong relationships and ensuring that project requirements and expectations are clearly understood and met.
- Utilize industry knowledge to accurately assess customer needs and address concerns, proactively providing solutions that enhance user experience and drive customer satisfaction.
- Demonstrate exceptional attention to detail in all aspects of development, from coding to design, ensuring high-quality deliverables that align with project specifications and goals.
- Maintain a strong work ethic and commitment to delivering results, consistently meeting deadlines and contributing to the success of the development team and organization.
- Manage time effectively, prioritizing tasks and responsibilities to balance multiple projects while maintaining high standards of quality and performance throughout the development lifecycle.
- Collaborate with diverse teams, including designers, developers, and project managers, to ensure cohesive project execution and alignment of objectives throughout the development process.
- Stay current with emerging web development trends and technologies, applying new knowledge to improve existing processes and enhance the quality of user interfaces.
- Conduct thorough testing and debugging of web applications to identify and resolve issues promptly, ensuring optimal functionality and a smooth user experience.