SIDDHANT JAIN

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SKILLS:

Languages: Java, C++, Python, C#, SQL, JavaScript, TypeScript, GraphQL, CSS, HTML5, XML, .NET, ReactJS, PHP, REST, NodeJS

Tools: Eclipse, IntelliJ, Android Studio, Anaconda, VS Code, MS Excel, Google Colab, AWS CLI, Oracle DB, Visual Studio, JDK IDE

Frameworks: Django, Terraform, OpenCV, TensorFlow, Keras, Flask RESTful API, PyTorch, LangChain, LlamaIndex, Kafka, Hadoop

Version Control/ CI-CD: Jenkins, GitHub Actions, AWS CodePipeline

Methodologies: Kanban, Software Development LifeCycle, Scrum, Test Automation, Unit Testing.

Platforms: Windows, Linux, Web, MQTT, IBM Watson, AWS, Shell, Redshift, Ubuntu, Postman

WORK EXPERIENCE:

Software Developer - ML , The Legal Book   Jan' 23 – Jun' 23

- Implemented AI-driven "Review in Seconds": Enabled legal teams to explore **100+ contracts monthly** by comparing clauses against playbook parameters and flagging discrepancies. Developed backend using **Python** and **Flask** for real-time contract analysis and AI integration on **Linux** Operating System along with the assistance of **Terraform**.
- Streamlined **ML** Deployments & **CI/CD:** Automated rollout of **GPT/BERT** models with **Docker** and **Kubernetes**; established **Jenkins** pipelines, increasing deployment frequency by **30%**, and utilized **MLflow**, **DVC**, and **AWS** for reproducible workflows.
- Monitoring & Uptime: Assembled **Prometheus** and **Grafana,** reducing downtime by **20%** and elevating incident resolution.

Software Developer (Intern), Vriddhi Software Solutions, Pvt. Ltd.   Apr' 22 – May' 22

- ERP Implementation for **200+** Institutes: Deployed ERP software to handle academic/financial data, creating **PL/SQL** packages and procedures using **Oracle SQL Developer** for resilient data integrity.
- SQL Server Maintenance: Inspected consistency checks and index defragmentation, boosting database performance by a predicted **15%**.
- ASP.NET & Data Availability: Revamped intranet and cloud layers on **ASP.NET 4.5,** raising data availability by **30%** through real-time synchronization**,** multi-threading**,** and optimized **C#** data access**.**

Artificial Intelligence Engineer (Extern), IBM.   Jun' 21 – Jul' 21

- Sales Forecast Web App: Crafted a forecasting platform with **NumPy, Pandas, scikit-learn, TensorFlow**, analyzing **1000+** of data points to predict store sales.
- LSTM-Based AI Model: Leveraged **RNNs** to study historical data, upgrading forecast accuracy by around **20%**.
- Trimmed Debug Time: Minimized debugging by **20%** via efficient **Flask, RESTful endpoints,** and **Jinja2 templating.**

PROJECTS:

End-to-End Medical Chatbot GitHub   Jul' 24

- Developed an end-to-end medical chatbot by leveraging **LLMs** and **RAG** models **(OpenAI, LangChain, vectorDB)** on **AWS EC2**, resulting in handling 1,000+ queries per month with **98%** accuracy.
- Engineered an appointment booking system integrated with **AWS RDS** by streamlining **SQL**-based operations, achieving a **40%** reduction in processing time.
- Created an intuitive, compassionate medical **Q&A interface** by incorporating real-time analytics and optimized response prompts, leading to a **30%** decrease in patient anxiety during pilot tests. Optimized overall system performance by integrating efficient session management and real-time data analytics, resulting in a 25% reduction in response times.

E-Commerce Platform with Advanced Monitoring and Incident Management GitHub   Jun' 24

- Ideated a robust e-commerce website using **Java 17** and **Spring Boot**, incorporating real-time auditing and observability through **Splunk** and APM tools like **New Relic**, to detect and analyze system performance and user interactions.
- Architected Incident and Problem Management workflows using automated alerts and triggers via **ServiceNow**, cutting incident resolution time by **40%.**
- Optimized performance and reliability by addressing bottlenecks identified through **APM** tools, such as slow database queries and intensive backend processes; boosting page load speeds by **30%.**
- Strengthened security and data protection by Engineering secure user authentication with **Spring Security** and **OAuth 2.0**, along with data encryption, ensuring compliance with industry standards and safeguarding user information.

Social Media Misinformation Dataset Collection and Management (SMDM) GitHub   Mar' 24

- Designed a **PostgreSQL** database on **AWS RDS** to track misinformation, processing **200+** entries monthly, devised data integrity, real-time updates, and security measures using **AWS IAM** and **CloudWatch**
- Deployed data processing solutions on **AWS Lambda** and used **AWS Glue** for data transformation, reducing processing time by **25%.**

EDUCATION:

Masters in Science, Computer and Information Sciences, University at Buffalo, CGPA: 3.8

Bachelor of Technology, Computer Science with Business Systems, Vellore Institute of Technology, India CGPA: **3.91**

PUBLICATIONS:

Rust disease classification using deep learning algorithms Link: Presented at Eurasia Conferences in Berlin. (May' 23)

Medify Chatbot Link: Published in Journal: IJARCCE (Sep' 22)

VOLUNTEER EXPERIENCE:

Member of Rotaract Club, VIT Vellore, India: Organized 50 awareness-raising seminars, fostering community engagement, while volunteering in social work for nearby villages (Sep' 19 - Oct' 21)