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| Education  **G.L. BAJAJ INSTITUTE OF TECHNOLOGY**  Bachelor of Technology  (Electronics and Communication)  Graduated May 2012  **ASN Sr. Sec. School**  **Senior Secondary (CBSE)**  Graduated March2007  Skills  **Programming language**  ★★★★★  **Python**: ★★★★☆  **Tools**  ★★★★★  ★★★★★  ★★★★★  ★★★★★  ★★★★★  ★★★★★  **Jupyter** ★★★★☆  **Anaconda** ★★★★☆  **Pycharm** ★★★★☆  **VSCode** ★★★★☆  **ArcGIS** ★★★★☆  **QGIS** ★★★★☆  **DL/ML Stack**  ★★★★★  ★★★★★  ★★★★★  ★★★★★  ★★★☆☆  ★★★☆☆  ★★★★★  ★★★★★  ★★★★☆  ★★★★☆  ★★★★☆  ★★★★☆  **DL algorithms** ★★★★☆  **Pytorch** ★★★★☆  **Fastai** ★★★★☆  **Transformers** ★★★★☆  **Keras** ★★★★☆  **Pyspark** ★★★★☆  **Pandas** ★★★★☆  **ArcGIS Python API** ★★★★☆  **GDAL** ★★★★☆  **Langchain** ★★★★☆  **Llama Index** ★★★★☆  **Unstructured** ★★★★☆  **Cloud platforms:**  ★★★★★  ★★★★☆  ★★★☆☆  **AWS**  **Azure**  **GCP ML APIs** ★★★☆☆  **OS / Virtualization:**  **Linux**  **Windows**  **Docker**  **Other tools:**  **ArcGIS Pro**  **Redis Cache**  **MS Project Server**  **Sharepoint 2013**  **SQL**  Interests  **Trail running, hiking.**  **Deep learning evangelism.** | 396-B, Pocket-2, Mayur Vihar, Phase-1  New Delhi,  +91-9555452237  writetoakhilnegi@gmail.com  [writetoakhilnegi@gmail.com](mailto:writetoakhilnegi@gmail.com)  Akhil Negi  Manager  Data & Analytics  Experience  **EY Global Delivery Services** December 2021 – Present  (Manager – Data and Analytics)   * **Led the design and development of POCs/MVPs with generative AI models, directly impacting key areas such as:**   + **Enterprise knowledge management and discovery**, enhancing information accessibility and improving decision-making.   + **Optimizing contact center operations** through AI-driven insights, boosting customer service and operational efficiency.   + **Application leveraging RAG, LLM Agents and tools:**     - ESG benchmarking     - Code documentation and translation     - NL query for structured data.     - Document comparison and disclosure validation.     - Web search based cataloging tool.     - Toolset explored: Azure OpenAI, Langchain, LangSmith, LlamaIndex, evaluate, peft, evaluate, vLLM, bitsandbytes. * **As a Senior Data Scientist, orchestrated the technical strategy and implementation of a transactional fraud detection and mitigation application for a leading UK bank, involving:**   + Engaging in the development process to counteract digital and card fraud, reinforcing asset security and customer trust.   + Collaborating with stakeholders to align the solution with the bank’s broader risk management protocols. * **Directed the development and deployment of a Data Monetization platform for a major power and utility sector client, where I:**   + Oversaw data handling and insights generation on a large scale, addressing the needs of millions of consumers.   + Developed geo-spatial analysis (GIS) functionalities, widening the platform’s applicability to various sectors and uncovering new business avenues. * **Managed the development and implementation of a Document AI solution for a significant client in the Chemical (procurement) sector, including:**   + Leading the project from conceptualization to deployment, ensuring the solution effectively streamlined procurement processes.   + Drove model development, training data curation, and architecture design, significantly enhancing operational efficiency and reducing costs. * **Contributed to business expansion efforts by:**   + Initiating and executing multiple Natural Language Processing (NLP) and Computer Vision (CV) POCs for clients across different industries, showcasing the practical benefits of AI technologies.   + Utilizing technical and project leadership skills to foster company growth and widen its client base with innovative AI solutions.     **ESRI New Delhi R&D center (Environmental Systems Research Institute)** May 2019 – November 2021 (Data Scientist 2):   * Played a pivotal role in the ArcGIS Python API team, integrating cutting-edge deep learning models for processing imagery, unstructured text, and 3D point cloud data. * Served as Product owner for the Python API text module, leading agile practices and facilitating the seamless development and delivery of product enhancements. * Drove the research and development of new datasets, spearheading the training of production-scale deep learning models on multi-GPUs. These models were primed for publication on the ArcGIS Living Atlas, showcasing a blend of technical acumen and strategic project direction. * Assumed the role of NLP specialist, overseeing the curation and maintenance of the text sub-module within the Python API, ensuring the delivery of robust NLP capabilities. * Identified and pursued opportunities for enhancing the existing product ecosystem with ML/DL technologies, demonstrating a strategic approach to product development and innovation. * Led the deployment of ready-to-use models as web services on cloud infrastructure, facilitating the operationalization of deep learning models for broader accessibility and impact. * Collaborated across teams to embed deep learning solutions within various products:   Few examples of DL inclusion:   * + Enhancing search and discoverability in ArcGIS Online.   + Implementing solutions for the redaction of personally identifiable information from public documents, thereby elevating privacy and security measures. * Championed the Python API and the team’s innovations through presentations at Webinars, ESRI Developer Summits, and user conferences, effectively communicating the value and applications of our work to a wider audience.   **Tata Consultancy Services (Life Sciences- TEG)** Jan 2017– Mar 2019  (Data Scientist)   * Engaged with stakeholders to comprehensively understand their processes, laying the groundwork for targeted improvements. * Analyzed the existing workflows to pinpoint opportunities for ML/NLP applications, aiming to enhance operational efficiency. * Collaborated closely with fellow developers to extract and prepare the necessary data for analysis and modeling. * Developed and enforced data labeling guidelines, overseeing the manual labeling efforts carried out by my team for training data preparation. * Outlined the technical infrastructure needs, leading the setup of Virtual Machines (VMs) on the Google Cloud Platform to support our computing requirements. * Architected and implemented a data cleansing and preprocessing pipeline, ensuring data quality and readiness for model training. * Conducted thorough research on cutting-edge deep learning architectures and academic papers, adapting state-of-the-art solutions to meet our specific project needs. * Took charge of model development, from initial building and training to fine-tuning and establishing deployment pipelines, ensuring models are ready for production use. * Provided ongoing support to the team, troubleshooting and resolving challenges encountered during the model training process. * Focused on team capability enhancement by hiring and mentoring new ML talents, fostering a skilled and knowledgeable workforce.   **Tata Consultancy Services (Ameriprise Financial)** Mar 2013 – Sep 2016 (Sharepoint developer/Project Server SME)   * Design, develop, and manage site content and capabilities and provide daily onsite maintenance of the existing SharePoint portals. * Design intelligent form-based applications (InfoPath) as per business requirements. * Work with Project Managers, providing accurate development estimates as requested. * Ensure systems change management is carried out in accordance with agreed standards and procedures on Service Now. * Walkthrough of the design and code to the Production support team and Change management team. * Reporting of status to the client through weekly meetings. * Act as Project Server SME for Project Management Group. * Assist PMs with the maintenance of project pages in SharePoint. |