

Akhil Negi

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Education

ASN Sr. Sec. School
Senior Secondary (CBSE)
Graduated March 2007

G.L. BAJAJ INSTITUTE OF TECHNOLOGY
Bachelor of Technology
(Electronics and Communication)
Graduated May 2012

Skills

Programming Languages:

Python:	★★★★★
R	★☆☆☆☆
C++	★☆☆☆☆

Tools

Jupyter Notebook	★★★★★
Anaconda	★★★★★
Pycharm	★★★★★
VSCode	★★★★★
ArcGIS	★★★★★
QGIS	★★★★★

DL/ML Stack

DL algorithms	★★★★★
Pytorch	★★★★★
Fastai	★★★★★
Transformers	★★★★★
Keras	★★★★☆
Pandas	★★★★★
Multithreaded /Distributed - programming	★★★★☆
ArcGIS python API	★★★★★
GDAL	★★★★☆
Langchain	★★★★☆

Cloud platforms:

AWS	★★★★★
Azure	★★★★★
GCP ML APIs	★★★★☆

OS / Virtualization:
Linux

Work Experience

EY Global Delivery Services December 2021 – Present
(Associate manager – Intelligence and Automation)

- Hands on experience with designing and developing rapid POCs with generative AI models, in the space of:
 - Enterprise knowledge management and discovery.
 - Enterprise risk identification and analysis.
 - Contact center.
- Working as a Senior Data Scientist for implementing transactional fraud (Digital events and cards) detection and mitigation application for one of the large UK banks.
- Lead a 6-member team to develop and deploy a Data Monetization platform for a large power and utility sector customer.
 - Platform was handling huge volume of data (Millions of consumers countrywide) and generating data backed insights.
 - This platform had geo spatial analysis(GIS) capabilities targeting real estate, tourism, banking & telecom customers.
- Lead a team of 10 junior data scientists to develop and deploy a Document AI solution for a major client in Chemical (procurement) domain.
- I was involved in requirement gathering, feasibility analysis effort estimation, architecture design, training data curation, model development, improvement and deployment activities while working on the Document AI solution.
- Contributed to business development activities by developing multiple NLP and CV POCs for clients across different domains.

ESRI New Delhi R&D center (Environmental Systems Research Institute) May 2019 – November 2021 (Data Scientist 2)

- Worked as a python developer on the ArcGIS python API team to integrate the latest deep learning models for imagery, unstructured text, and 3D point cloud data.
- Worked on integration of Image Segmentation, Instance Segmentation, Object Detection, OCR, Point cloud classification, text classification, named entity recognition, sequence to sequence translation, text summarization models to the API.
- Scrum master for the python API product team.
- Researching new datasets and training ready to use production scale deep learning models on multi-GPUs, to be published on ArcGIS Living Atlas.
- NLP specialist for curating and maintaining the text sub-module of the python API.
- Researching for opportunities within existing product ecosystem for enhancements using ML/DL
- Deploying ready-to-use models as web services using cloud infrastructure.

Windows
Docker

Other tools:

ArcGIS Pro
Redis Cache
MS Project Server
Sharepoint 2013
SQL

Interests

Trail running, hiking.
Deep learning evangelism.

- Working with other teams in the organization to implement deep learning solutions in their product.
Few such projects include:
 - Improving search and discoverability in ArcGIS online.
 - Redacting personally identifiable information from public documents.
- Presenting the Python API and our team’s work in Webinars, ESRI developers summits and user conferences.

Tata Consultancy Services (Life Sciences- TEG) Jan 2017– Mar 2019
(Data Scientist)

- Meeting the stakeholders to understand the process from ground up.
- Understanding the process and identifying areas that can be targeted with ML/NLP implementations.
- Working with other developers on mining the data.
- Training data preparation: Laying out the data labeling guidelines for manual labelling done by my team.
- Laying out the infrastructure requirements and setting up the VMs on the google cloud platform.
- Building the data cleansing and preprocessing pipeline.
- Research for State-of-the-art deep learning architectures/Research papers in order to retrofit the same for our problem statement.
- Model building, training, tuning and setting up deployment pipelines.
- Assisting the team with any issues while training the deep learning models.
- Hiring and mentoring ML resources on the team.

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.