

# MANI DEEPAK REDDY AILA

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## EDUCATION

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**Master of Science in Information Systems, Northeastern University GPA: 4.0/4.0** Expected 2024  
Relevant Coursework: Application Engineering and Development, Data Management and Database Design, Data Science Engineering Methods and Tools, Big Data Systems and Intelligence Analytics.

**Bachelor of Technology in Mathematics & Computing, IIT Delhi** 2016 - 2020  
Relevant Courses: Probability Theory, Statistical Methods and Applications, Data Mining

## SKILLS

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<b>Programming Languages</b>	Java, Python, Javascript
<b>Database</b>	MySQL, PostgreSQL, MongoDB, Cassandra
<b>Big Data Tools</b>	Apache Spark, HDFS, Microsoft Azure, Apache Airflow, Oozie, Livy
<b>Web</b>	HTML, ReactJS, Java Springboot
<b>Software Tools</b>	Jenkins, Postman, Github, JIRA, Dbeaver, Apache Maven, SonarQube
<b>Data Visualization</b>	Elasticsearch Kibana, Tableau

## EXPERIENCE

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**Societe Generale - Compliance Department (R&D) - Software Development Engineer** Bangalore, India  
August 2020 - August 2022

### Data Engineering - Activity Risk Monitoring

- Designed, implemented and maintained a data ingestion pipeline to process data from various sources SFTP, API calls, etc, to integrate a few millions of rows using Apache Spark scheduled using Airflow. Leveraged Microsoft Azure for storage, HDI clusters and key vaults.
- Loaded and transformed large sets of structured, and semi structured data.
- Facilitated dashboards using Elasticsearch-Kibana; These dashboards helped in computerizing production support process, monitoring Airflow DAGS, server metrics & storage.
- Built Jenkins pipelines to automate deployment and release process for production involving DevOps practices.
- Created a POC for including Data Quality, Apache Livy, Azure Key Vault in the application

### Full stack Web Development - Alert Management System

- Built a web application leveraging Java, Spring Boot, ReactJS and PostgreSQL, is used by compliance officers to rate and close alerts.
- Modelled a successful prototype, implemented a new Dashboard to display alerts and reducing the overall load time for millions of alerts.
- Added various plots for open/closed alerts, search and notification functionalities for the Web Tool.

## PROJECTS

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### Age Detection using Deep Learning - MobileNet

- Built two CNN models, one from scratch and the other using the pre-trained model to classify the large dataset of images into multiple classes.

### Shopify - eCommerce application

- Built an end-to-end eCommerce application leveraging the MERN stack. Integrated the paypal sandbox checkout and generated a QR code with the items purchased.

## CERTIFICATIONS

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**Apache Spark:** Databricks Certified Associate Developer for Apache Spark 3.0 - pyspark