

PRAGATHI NEKKANTI

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PROFESSIONAL SUMMARY

Engineering graduate skilled in Java, Python, SQL, and automation tools with hands-on experience in software development, API integration, machine learning, and big-data processing. Experienced in building Java-based applications, creating automation frameworks using Selenium & REST-Assured, deploying ML models as APIs, and developing scalable solutions using technologies like Spring Boot, Spark, and TensorFlow.

SKILLS

- **Programming:** Java, Python, SQL, R, MATLAB
- **Web / Backend:** Spring Boot, REST APIs
- **Automation & Testing:** Selenium WebDriver, REST-Assured, TestNG, JUnit
- **Machine Learning / AI:** TensorFlow, PyTorch, Keras, Scikit-learn
- **Data Handling:** Pandas, NumPy, SQL Joins, Views, Stored Procedures
- **Big Data:** Apache Spark, Hadoop, HDFS
- **Tools & Platforms:** SAS, Git, Jupyter, Linux

EDUCATION

Bachelor of Engineering (Computer Science(DATA SCIENCE))	<i>Nov 2021-July 2025</i>
Vignan's institute of management and technology for women	CGPA 6.9
Class 12th	<i>May 2020</i>
C V Raman Junior College	Percentage – 87.3
Class 10th	<i>Mar 2018</i>
Saraswathi High School	Percentage – 93

PROJECTS

Sentiment Analysis on Fashion Product Reviews (Major Project)

Tools: Python, TensorFlow, PyTorch, Pandas, Scikit-learn, SQL Description:

- Preprocessed and transformed 20,000+ customer reviews using NLP techniques.

- Trained multiple models (LSTM, CNN, Logistic Regression) and used cross-validation to select the bestperforming one.
- Achieved 88% F1-score; visualized performance using ROC, precision-recall curves.
- Deployed model as a REST API for real-time sentiment classification.

Big Data Classification using Apache Spark

Tools: PySpark, Hadoop HDFS, MLlib

- Processed 1M+ machine maintenance logs using Spark DataFrames and HDFS pipelines.
- Optimized ETL workflows, reducing data processing time by **70%** using distributed computing.
- Trained & evaluated Random Forest and Gradient Boosted Trees models using MLlib with k-fold validation.
- Improved prediction efficiency for early fault detection in machinery.

Automated Regression Test Suite Framework (INTERNSHIP)

Tools: Selenium WebDriver, REST-Assured, Spring Boot, Java, TestNG/JUnit

- Developed a Selenium-based automation framework for UI testing with reusable components.
- Built REST-Assured test suites for API validation including authentication, status codes & payload checks.
- Implemented parallel test execution using multithreading, improving test speed significantly.
- Integrated Spring Boot APIs to control scheduling, execution, and test result retrieval.
- Generated detailed HTML, CSV, and JUnit reports with logs and failure screenshots for debugging.

VOLUNTEERING

- NSS Student Coordinator
- Indian Red-Cross Student Coordinator

CERTIFICATIONS

- Programming Using Java — NPTEL (Elite)
- Data Management — Oracle
- Introduction to AWS — Udemy
- MongoDB Java Developer Path — MongoDB University

INTERESTS

- Volunteering and organizing events
- Photography

