MANDIRA SAWKAR

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EDUCATION

IIIT – Hyderabad, Hyderabad, India   **Jun 2023**
Secured a Post Graduate Certification in Software Engineering for Data Science with *Distinction*   **CGPA: 3.84 / 4.0**

Indira Gandhi National Open University, Delhi, India   **Dec 2020**
Graduated with a Bachelor of Computer Applications with First Class   **CGPA: 3.07 / 4.0**

PROFESSIONAL EXPERIENCE

Kloud9.nyc, Bengaluru, India | *Big Data Engineer*   **Apr 2023 - Present**
- Completed the feature engineering and validation phases for 50+ features of an ML model for ghost inventory prediction at a variety store chain. Generated 92% accuracy.
- Undertaking the mining and analysis of ~10 datasets with multimillion datapoints to gain insights about stats, trends, uniformity, etc. so as to expand and generalize the existing ML model.
- Training interns in feature engineering and PySpark, and to make valuable contributions that can help get them converted to full-time employees.

WSP Global, Bengaluru, India | *Software Engineer*   **Oct 2020 – Apr 2023**
- Developed CLI tool using PowerShell and ProjectWise to automate creation and management of employee records. Utilized by Digital Operations team for induction of ~60K new employees, saving ~2.5 human-months per year.
- Automated pipeline to detect project archival status using PowerShell, PowerAutomate and SharePoint. Developed monthly workflow to notify project-owners, and automatically archive projects. Led to 71% reduction in Digital Operations team's maintenance overhead.
- Designed and implemented Python application to maintain integrity in employee and project databases. Employed Pandas DataFrames to detect duplicates and inconsistencies across ~80,000 employee records per month.

Consulate General of France, Bengaluru, India | *Visa Official*   **Mar 2020 – Sep 2020**
- Authored 5 analysis reports on Covid-19 (w.r.t economy, education, transport), distributed to the French community of 3 states (1000+ persons); Also processed ~50 visas per day.

Campus France India, Bengaluru, India | *Management Intern*   **May 2018 – Oct 2018**
- Counselled and interviewed ~100 students for higher education. Organized 6 education fairs at 10 institutions while also training interns.

PROJECTS

Interpretable Parking Ticket Location Classifier| IIIT-H
- Built a SparkML RandomForest classifier to predict police-precinct of ticketed vehicles in NYC parking-ticket dataset.
- Employed Spark Streaming and PySpark for parallel computation. Achieved 98% accuracy, and identified police precincts with anomalous ticketing practices.
- Tools: PySpark, Spark Streaming, SparkML, Docker.

GetPaid| IIIT-H
- Created a SparkML RandomForest model to predict total employee compensation. Queried data with SparkSQL, ran PySpark scripts to run EDA, pre-process data, and train model achieving with 0.98 R2 score.
- Tools: Docker, SparkML, PySpark, SparkSQL, seaborn, Docker, Flask.

Product Shipping Status Classifier| IIIT-H
- Developed a RandomForest model to predict issues in the product supply-chain which might delay product shipment to customers.
- Employed PCA and LDA optimization for visualization and dimension reduction. RandomForest model achieved accuracy of 97% (with PCA) and 92% (with LDA).
- Tools: SciKit-learn, Pandas, NumPy, MatPlotLib.

TECHNICAL SKILLS

- Programming Languages - Python, C, C++, PowerShell, Java, HTML, CSS, JavaScript
- Software Development Tools – Google Cloud Platform, Docker Flask, Swagger, MongoDB, Git
- Data Science and Machine Learning Tools - SparkML, SciKit-learn, SparkSQL, MySQL, PySpark, Dask, Pandas, NumPy, seaborn, MatPlotLib, MLFlow
- Big Data Processing and Mining, ML Production, Exploratory Data Analysis (EDA), Data Visualization, Regression and Classification Modelling, Data Structures and Algorithms, Workflow Automation

EXTRA CURRICULAR ACTIVITIES

- Conducted tutoring sessions at home from Jul to Oct 2019, for underprivileged children in the community, who lacked access to formal schooling.
- Volunteered at an urban wildlife rehabilitation center, People for Animals, in February 2020. Helped feed injured birds and monkeys, and maintained enclosures.
- Completed a French language program at Alliance Française de Bangalore from Jan 2018 to Dec 2020 and achieved DELF B1 certification with a total score of 93/100.