Suriender Singh

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LinkedIn | GitHub | Portfolio

SUMMARY

- 8+ years of experience in data analysis, ETL processes, data modeling, and full stack development. Skilled in deriving actionable insights and creating data visualizations with Power BI. Proficient in relational database management (SQL, MySQL, Oracle DB).
- Proficient in Python, R, Java, C, and experienced with AI/machine learning tools (Jupyter, Pandas, Matplotlib). Strong backend expertise in database management (SQL, MongoDB) and microservices architecture using Docker and Docker Compose.
- Led and mentored a team of four in Agile environments (Scrum, Kanban), overseeing the full SDLC to ensure timely, high-quality software delivery aligned with business objectives.

SKILLS

Data Science:	**Business Intelligence** (Power BI), **Data Manipulation** (SQL, R, Excel, Python - Pandas, NumPy), **Data Warehousing** (AWS Redshift), **Data Analysis and Visualization** (Scikit-learn, Matplotlib, Seaborn, Plotly, SciPy), **ETL and Data Pipeline Management** (Microsoft Synapse Analytics, Apache Airflow)
Languages:	Python, R, JAVA, C, SQL, PL-SQL
Databases:	**Non-relational database** (MongoDB), **Relational databases** (MySQL, Oracle DB)
Operating Systems:	Linux, Mac, Red Hat 7/8, Windows 10/11
Software/Tools:	**Version Control** (Git), **Microservices** & **Containerization** (Docker, Docker Compose), **IDEs & Editors** (Jupyter Notebook/Lab, Eclipse IDE, Visual Studio Code), **Issue Tracking & Collaboration** (JIRA, Confluence), **Scripting** (Bash Scripting), **Software Design & Development** (Data Structures, Objected Oriented Programming, Software design patterns), Microsoft Office (Excel, Word, PowerPoint)
Cloud/Hosting:	**AWS** (Glue, Redshift, S3, EC2, Lambda), **Hosting** (Netlify, Heroku)

EXPERIENCE

Senior Application Engineer | **Oracle** | Bangalore, India   Jun 2015 – Sep 2020

- **Predictive Modelling for Manufacturing Customers**: Performed data analysis and preprocessing of manufacturing customer data, implementing machine learning algorithms (decision tree, random forest, SVM) in R to predict faulty products based on raw material quality and manufacturing processes, resulting in a nearly 20% reduction in faulty products for a major customer, with insights presented in an HTML-based dashboard. *(R, SQL, Python , PowerBI, Apache Airflow, AWS Glue, React, HTML, CSS, Java Spring Boot, PL/SQL, Git, Bash Scripting)*

Senior Member of Technical Staff | AGNITY Communications | Noida, India   Nov 2020 – Aug 2023

- Led and mentored a team of four developers in Agile, overseeing full development while implementing key modules.
- Designed and implemented end-to-end applications including APIs, conducted POC demonstrations, and ensured high-quality software delivery through code reviews, documentation, and CI/CD implementation. *(React, HTML, CSS, JavaScript, SQL, Oracle Database, Java Spring Boot, PL/SQL)*
- Designed and implemented a microservices architecture, enhancing modularity and maintainability, which resulted in a 25% reduction in system downtime. (*Docker, Docker-compose*)

PROJECTS [Github link]

- Designed a **Python-based ETL pipeline** in Jupyter Notebook to integrate various data formats into MongoDB and Postgres, generating statistical reports and visualizations for projects like malware detection in IoT and credit card fraud prediction.
- Developed **JobWizard**, an end-to-end intelligent application that streamlines the job search and application process. It leverages BeautifulSoup to extract job openings from platforms like LinkedIn and Indeed, evaluates the compatibility of these listings with the user's resume using TF-IDF and BERT models, and automatically submits applications for positions that match the user's qualifications.

EDUCATION

- **Post Degree Diploma in Predictive Analytics** | University of Winnipeg | Winnipeg, Canada   *Sep 2023 – Sep 2024*
- **Master of Science in Computer Science and Technology** | NIT, Trichy | India   *Oct 2012 – Jun 2015*
- **Bachelor of Technology in Information Technology** | Uttarakhand Technical University | India   *Jun 2007 – May 2011*

PUBLICATIONS

- "Detection of Distributed Denial of Service Attacks Using Panel of Experts": Bilingual International Conference on Information Technology: Yesterday, Today, and Tomorrow, 19 - 21, Feb.'15, DRDO, Delhi, pp. 248 - 254, DESIDOC. [Link]
- "A hybrid feature subset selection by combining filters and genetic algorithm": International Conference on Computing, Communication & Automation (ICCCA), Greater Noida, India, 15-16 May 2015, pp. 283-289. [Link]