Suriender Singh

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LinkedIn | GitHub | Portfolio

EDUCATION

University of Winnipeg	Winnipeg, Canada
*Post Degree Diploma in Predictive Analytics	GPA: 4.24/4.5	Awarded 'Program Top Student'*	*Sep 2023 – Sep 2024*
National Institute of Technology (NIT)	Trichy, India
MS in Computer Science and Technology [WES Canadian Equivalency: Master's degree]	*Oct 2012 – Jun 2015*
Uttarakhand Technical University	Dehradun, India
Bachelor of Technology in Information Technology [WES: Bachelor's degree (four years)]	*Jun 2007 – May 2011*

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 Synpase 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

Oracle	**Bangalore, India**
Senior Application Engineer	*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)*

AGNITY Communications [Acquired by TNS (Transaction Network Services)]	**Noida, India**
Senior Member of Technical Staff	*Nov 2020 – Aug 2023*

- Led and mentored a team of four developers in an Agile environment, actively contributing to critical components while overseeing the full development lifecycle. Directed end-to-end application development, guided team members on module completion, designed and maintained 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)*

ACADEMIC PROJECTS [Github link]

- **ETL Pipeline Development**: 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.
- **Shell Scripting for Data Processing**: Orchestrated ETL processes with shell scripting for ingestion and transformation from remote sources, ensuring timely data processing with automated job scheduling via crontab.
- **Real-Time Data Streaming and Workflow Management**: Developed ETL pipelines with Apache Airflow and constructed real-time data streaming pipelines using Apache Kafka.
- **JobWizard:** 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.

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]