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Gaganjot Kaur SHAN
Junior Data Analyst / Scientist

PROFILE

Results-driven **Data Science** postgraduate with track record in **data analysis & visualization, machine learning**, and **web application development**. Proficient in **Python**, **SQL**, **JavaScript, ML frameworks** and **system optimization**. A strong communicator and collaborative team player who thrives on turning complex data into clear, actionable insights.

EXPERIENCE

Analytics & ML Solutions Developer
iNeuron.ai
Remote, India — Jul 2024 - Present

- **Engineered ETL pipelines** using **Apache Airflow** and **PostgreSQL,** optimizing data workflows
- **Designed** interactive **Power BI dashboards** for **KPI visualization** and **cost analysis**
- **Architecting** an **anomaly detection system** to monitor financial transactions

Python Developer, Security Research Intern
SAP Labs
Mougins, France — Mar 2023 - Aug 2023

- **Developed** a web **application** employing **SAP Fiori (UI5)/UX** to enable secure **data analytics**
- **Deployed containerized solutions** with **Docker** on **SAP BTP's Kubernetes** clusters
- **Automated** workflows with **YAML** and **Shell scripting**; tested APIs with **Postman** for robust performance

Software Engineer Working Student
Indian Railways
Patiala, India — Jun 2018 - Aug 2018

- **Programmed Python socket solutions** to optimize network performance, reducing data transmission latency
- **Collaborated** with **cross-functional teams** to **present insights**, improving **communication** and **knowledge sharing**

Machine Learning Research Assistant
Indian Institute of Space Science and Technology
Thiruvananthapuram, India — May 2017 - Jun 2017

- **Optimized ML models** for **predictive maintenance** employing **hyperparameter tuning** and **ensemble methods**
- **Extracted insights** from **SQL databases** and visualized trends in **Tableau**, contributing to data-driven decisions

RESEARCH PROJECTS

Real-Time AI Voice Tech Support, iNeuron.ai
Sep 2024 - Present

- **Developed AI Voice Assistant** using **Large Language Models** (RAG and Mistral) enhancing **user engagement** and **real-time support**

Industry-Standard MLOps: Practical Showcase, Personal
Apr 2024 - Jun 2024

- **Built end-to-end ML pipelines** with **Flask**, **CI/CD automation**, and **AWS** (EC2, S3, Lambda)
- **Ensured seamless deployment** and scalability across data ingestion, transformation, model training, and deployment stages

Oscillatory Neural Network for Voice Spoofing Detection, EURECOM
Sep 2022 - Feb 2023

- **Implemented coRNN model** to detect voice spoofing attacks, achieving **1.9% performance improvement**
- **Improved model efficiency** with **bi-directional architecture**, demonstrating analytical thinking and precision

Event Extraction using Deep Learning and NLP EURECOM
Jan 2022 - Jun 2022

- **Built BiGRU model** for event detection, **achieving 91% accuracy** in semantic relationship extraction
- **Employed** advanced **NLP techniques** for **named entity recognition**, **feature engineering**, and **data preprocessing**

EDUCATION

2021-2023, EURECOM, France
MS in **Data Science and Engineering,** GPA: 3.62/4
Focus: Science, Technology, and Health

2016-2020, Chandigarh University, India
BE in **Computer Science,** CGPA: 7.95/10
Specialised in Computational Intelligence

2013-2016, Indian Institute of Science Education and Research
Research Scholar, Inspire Fellowship
Focus: Computational Science, Chemistry and Biology

SKILLS

- **Programming** : **Python**, SQL , JavaScript , C++ , Core Java , MATLAB
- **ML/AI** : TensorFlow, PyTorch , NLP (Word2Vec, NLTK, spaCy) , Scikit-learn, MLOps , Prompt Engineering
- **Data Visualization & Analytics** : Power BI , Tableau , Excel , Looker Studio , BigQuery
- **DevOps & Cloud** : Docker , Kubernetes , CI/CD , MLflow , GCP , AWS (EC2, S3, Lambda, SageMaker)
- **Web Development** : HTML , CSS , Node.js , React
- **Languages** : English (B2-C1) , Hindi (C1) , Punjabi (C2) , French (A2) , German (A1)