

Gaganjot Kaur SHAN

📍 Le Cannet, France

✉ gagan.shan7@gmail.com

☎ +33766356099

🌐 [LinkedIn](#)

🔗 [GitHub](#)

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COMPUTER SCIENCE ENGINEER

Results-driven Data Scientist with 1.5 years experience in machine learning, predictive modelling, and data analysis. Proficient in Python, SQL, ML frameworks, visualization, and system optimization. Skilled in software engineering and delivering actionable insights.

SKILLS & INTEREST

Programming: Python, SQL, JavaScript, HTML, CSS, Shell Scripting, C++, Core Java, MATLAB

Natural Language Processing: Transformers, BERT, GPT, Word2Vec, spaCy, NLTK, Topic Modeling, TensorFlow, PyTorch

Tools Used: GCP, AWS, Docker, Kubernetes, MLflow, CI/CD pipelines, Power BI, Tableau

Interests and Hobbies: Generative AI, Swarm Intelligence, Strategy Games, Ecology, Boulderling, Salsa

EXPERIENCE

Data Science Intern, iNeuron, Remote

July 2024 - Present

- **Rotation - Data Analysis for Business Optimization:** Implementing ETL process for cost management analysis.
- Analyzing processed data to identify key metrics and relationships, enabling effective cost management strategies.
- Utilizing Scrum and Kanban methodologies.
- **Tech & Skills:** PostgreSQL, SQL, Python, Git, Power BI, Web Scraping, Data Analysis, KPI Development, Documentation

Data Science Security Research Intern, SAP Labs, France

Mar 2023 - Aug 2023

- **Security in Next-Generation Analytics:** Developed an application integrating ledger technology and REST APIs, enhancing UX and facilitating secure cross-organizational data synergy.
- Containerized with Docker and deployed on Kyma clusters, implementing auto-scaling, auto-healing for portability and reliability.
- **Tech & Skills:** SAP Fiori (UI5), Docker, Kubernetes, JavaScript, Node.js, YAML, Postman, Shell Script, Debugging

Software Engineer Intern, Indian Railways, Patiala

Jun 2018 - Aug 2018

- **Network Communication Optimization:** Developed a custom application-layer class using Python sockets, improving system responsiveness by 3% through optimized data transmission latency.
- **Tech & Skills:** Socket Programming, Performance Tuning, Software Engineering, Presentation, Cross-function teams work

PROJECTS

Real-Time AI Voice Tech Support

Aug 2024 - Present

- Developing a Tech Assistant with RAG and Mistral to complement my ongoing learning in Generative-AI and LLMs.

Industry-Standard MLOps: Practical Showcase

Apr 2024 - Jun 2024

- Executed a project aiming to gain hands on with various technologies while ensuring compliance with industry standards in ML.
- Data Ingestion, Transformation, Model Training, Evaluation, and Deployment, Monitoring and Logging, Flask, API, Modular Coding, Project Packaging, Docker, CI/CD Pipelines, AWS

Oscillatory Neural Network for Voice Spoofing Detection, EURECOM

Sept 2022 - Feb 2023

- Implemented coRNN model to effectively detect voice spoofing on ASV Spoof 2019 logical attacks database.
- Further optimised the architecture by introducing bidirectionality, boosting model performance by 1.9 percentage points, resulting in a best equal error rate of 6.8%.

Event Causality Detection using NLP, EURECOM

Jan 2022 - Jun 2022

- Build a neural network integrating Bidirectional GRU for event detection, achieving 85% accuracy on SemEval-2010 Task 8.
- Enhanced feature extraction and captured semantic relationships using word2vec while processing data using NLP techniques.
- Keras, NLP libraries (NLTK, spaCy, Gensim, Scikit-learn), Word Embeddings, Data Processing, Model Development

EDUCATION

Masters of Science in Data Science and Engineering, GPA: 3.62/4

EURECOM, France, 2021-2023

- Coursework: Cloud Computing, Databases, Machine Learning, Data Mining, Deep Learning, Bayesian Statistics, Semantic Web, Image Processing, 3D and virtual imaging, Mobile application and services, Security and privacy for big data and cloud

Bachelors of Engineering Computer Science and Engineering, CGPA: 7.95/10

CU, India, 2016-2020

PwC Switzerland Job Simulation - Power BI, Forage

Jun - July 2024

- Utilized analytical skills to develop Power BI dashboards, effectively conveyed KPIs, addressing client data visualization needs.
- Demonstrated analytical problem-solving and strong communication by identifying and delivering actionable insights.

BCG Data Science Job Simulation, Forage

Mar - Apr 2024

- Conducted customer churn analysis using Pandas and NumPy, optimized random forest model achieving 87.6% accuracy.
- Created data visualizations to interpret trends and prepared executive summary with actionable insights for Associate Director.

Mathematics for Machine Learning, Indian Institute of Space Science and Technology

May - Jun 2017

- Predictive analysis: Improved equipment failure forecasting accuracy by 2-5% through machine learning modeling.
- SQL, SVM, XGBoost, Random Forest, sklearn, Tableau, Predictive Modelling, Statistical Analysis, Advanced Mathematic