



Gaganjot Kaur SHAN

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COMPUTER SCIENCE ENGINEER

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

EDUCATION

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

EURECOM, France

- *Highlights: Cloud Computing, Databases, Machine Learning, Deep Learning, Semantic Web, Image Processing, 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

- *Highlights: Big Data Analytics, Data Warehouse and Data Mining, Information Retrieval, Genetic Programming, Design and Analysis of Algorithms*

TECHNICAL SKILLS

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

ML/NLP: Transformers, BERT, GPT, Word2Vec, spaCy, NLTK, Topic Modeling, TensorFlow, PyTorch

Tools Used: Docker, Kubernetes, MLflow, CI/CD pipelines, Power BI, Tableau, GCP, AWS (EC2, S3, Lambda, SageMaker)

EXPERIENCE

Data Science Intern, iNeuron, Remote

July 2024 - Present

- Rotation: Implementing ETL processes and financial data analysis to enhance cost efficiency and drive data-informed decisions.
- Processing and analyzing the data to identify key metrics and relationships, enabling effective cost management strategies.
- Tech & Skills: PostgreSQL, Python, Git, Power BI, Web Scraping, Data Analysis, KPI Development, Documentation.

Data Science Security Research Intern, SAP Labs, France

March 2023 - August 2023

- Developed a next-generation analytics application with integrated ledger technology and REST APIs, enhancing UX and enabling 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, Flask, YAML, Postman, Shell Script, Debugging.

Software Engineer Intern, Indian Railways, Patiala

June 2018 - August 2018

- Developed a custom application-layer class using Python sockets, optimizing data transmission latency.
- Achieved a 3% improvement in system responsiveness as a result of the enhancements.
- Tech & Skills: Socket Programming, Performance Tuning, Software Engineering, Presentation, Cross-function teamwork.

PROJECTS

Real-Time AI Voice Tech Support

August 2024 - Present

- Developing AI-Tech Assistant using RAG and Mistral, improved response time by 30-40% with Qdrant vector database integration.
- Implementing Generative AI and LLM techniques to enhance practical skills in advanced machine learning applications.

Industry-Standard MLOps: Practical Showcase

April 2024 - June 2024

- Executed end-to-end ML pipeline: data ingestion, transformation, model training, evaluation, deployment, reduce rollout time by 25%.
- Developed RESTful APIs with Flask for seamless ML model integration, enhancing project modularity and scalability.
- Orchestrated deployment with GitHub Actions and CI/CD pipelines on AWS, ensuring robust monitoring and version control.

Oscillatory Neural Network for Voice Spoofing Detection, EURECOM

September 2022 - February 2023

- Implemented coRNN model to effectively detect voice spoofing on ASV Spoof 2019 logical attacks database.
- Optimized model architecture by introducing bidirectionality, enhancing detection capabilities.
- Improved performance by 1.9 percentage points, achieving 6.8% equal error rate.

Event Causality Detection using NLP, EURECOM

January 2022 - June 2022

- Built Bidirectional GRU neural network for event detection, achieving 85% accuracy on SemEval-2010 Task 8.
- Enhanced feature extraction using word2vec, capturing semantic relationships through NLP techniques.
- Utilized Keras, NLTK, spaCy, Gensim, and Scikit-learn for data processing, word embedding, and model development.

PwC Switzerland Job Simulation - Power BI, Forage

June - July 2024

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

BCG Data Science Job Simulation, Forage

March - April 2024

- Conducted customer churn analysis using Pandas and NumPy, optimized 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 - June 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.