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Registrational particular de la Portfolio de Portfolio de

Gaganjot Kaur SHAN Junior Data Analyst

ABOUT ME

Results-driven Data Scientist with 1.5 years of experience in machine learning, model development, and data analysis. Proficient in Python, SQL, ML frameworks, data visualisation, MLOps, and system optimisation. Skilled in feature engineering, algorithm selection, and delivering actionable insights through advanced analytics.

EDUCATION

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

EURECOM, France

• Coursework 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 in Computer Science, CGPA: 7.95/10

Chandigarh University, India

• Coursework 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

Jul 2024 - Present

- Engineered ETL pipelines using Python and PostgreSQL, improved financial record processing by 5%
- Constructed interactive Power BI dashboards to visualise KPIs supporting cost management
- · Building a machine learning-based anomaly detection system to monitor irregular patterns

Security Research Intern, SAP Labs, France

Mar 2023 - Aug 2023

- · Architected next-gen analytics application employing SAP Fiori (UI5) and enabled secure data synergy across 5+ organisations
- · Diagnosed transaction discrepancies and rectified timestamp misalignments in the distributed ledger
- · Containerised with Docker and deploy the solution on Kubernetes (Kyma clusters), ensuring 99.9% availability
- · Composed YAML files, employed Postman for API testing, automated and debugged processes with Shell scripting

Software Engineer Intern, Indian Railways, Patiala

Jun 2018 - Aug 2018

- Created Python sockets application-layer to optimise data transmission latency, enhancing system responsiveness by 3%
- · Collaborated with cross-functional teams to refine project strategies and improve outcomes
- Presented insights to stakeholders, achieving a 10-12% boost in project alignment

PROJECTS

Real-Time Al Voice Tech Support

Aug 2024 - Present

- Developed Al Voice Assistant using Large Language Models (RAG and Mistral)
- Improved response time by 10-20% by integrated Qdrant vector database

Industry-Standard MLOps: Practical Showcase

Apr 2024 - Jun 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, CI/CD pipelines on AWS, ensuring robust monitoring and version control

Oscillatory Neural Network for Voice Spoofing Detection, EURECOM

Sep 2022 - Feb 2023

- Implemented coRNN model to effectively detect voice spoofing on ASV Spoof 2019 logical attacks database
- Optimised model architecture with bi-directionality, reducing equal error rate to 6.8% (1.9 percent point improvement)
- Enhanced detection capabilities by 1.9 percent point improvement, outperforming baseline models.

Event Causality Detection using NLP, EURECOM

Jan 2022 - Jun 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 from 10,000+ records through NLP techniques
- Employed NLTK and spaCy, Gensim, and Keras and Scikit-learn for data processing, word embedding, and model development

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

May - Jun 2017

- · Built and optimised machine learning models for predictive maintenance, reducing equipment downtime
- Improved equipment failure forecasting accuracy by 2-5% through feature engineering and ensemble methods
- · Analysed 10,000+ records using SQL, visualising trends in Tableau, extracted insights for stakeholders