Sookchand Harripersad

📍 620 Jordan Hill Village, Cipero Road, Princes Town, Trinidad and Tobago.

📧 sookchand38@gmail.com | 📞 +1 868-320-6185 | 🌐 <u>Portfolio</u>

Summary 🎯

💡 **Innovative Data Scientist and AI/ML Leader** with a combine **17+ years of experience**, leveraging advanced analytics, AI, and Generative AI to **drive business growth** and **optimize operations.** Skilled in **leading cross-functional teams**, designing **cutting-edge AI architectures**, and delivering **scalable solutions** aligned with organizational strategy. Passionate about **translating complex datasets** into actionable insights, fostering **digital transformation**, and guiding global AI initiatives.

Skills & Experience

🤝 **Leadership & Collaboration:** Managing cross-disciplinary teams, mentoring, and driving innovation. 🔍 **Innovation & Design Thinking:** Architecting AI-driven solutions that enhance efficiency and market competitiveness. 📊 **Data Strategy & Analytics:** Implementing ETL/ELT processes, predictive modelling, and advanced data visualization. 🚀 **Operational Excellence:** Streamlining workflows, improving scalability, and aligning technology with strategic objectives.

TECHNICAL PROFICIENCY

PROGRAMMING LANGAUGE 🖥️
Python | LangChain | R |SQL
RAG (Retrieval-Augmented Generation)
JavaScript (ES6)

DATA SCIENCE TOOLS 📊
Pandas | NumPy | TensorFlow
Scikit-Learn | MLFlow |
Matplotlib | DagsHub | PyTorch

MACHINE LEARNING 📈
Deep Learning | Transfer Learning |
Supervised Learning | Model Evaluation |
Regression Analysis

AI & DEEP LEARNING 🤖
Image Processing | Natural Language
Processing | Object Detection | GEN AI
Fuzzy Systems | Genetic Algorithm

DATA VISUALIZATION 📊
Tableau | D3.js |
PowerBI |
Seaborn

DATABASE MANAGEMENT 🗄️
SQL | MongoDB |
Mongoose | Firebase |
PostgreSQL| NoSQL

DEVOPs TOOLS 🚀
Git | GitHub |

WEB DEVELOPMENT 🌐
HTML | CSS | React.js |

Docker | Jira |
GitHub Actions | Airflow

React Hooks | Node.js | Express.js |
REST APIs | Bootstrap 5 | Flask

CLOUD COMPUTING ☁️
Cloud Astronomer | Google Cloud | AWS
(Airflow development) | MongoDB Atlas
Cloud-native Security | Security Best
Practice

WEB3 DEVELOPMENT 🪙
Token Contract | NFTs
Blockchain

CYBERSECURITY 🔐
AI for Threat Detection & Response |
Security Automation | Security by Design
Threat Detection Analysis | Network
Security | Encryption |
Risk Assessment, Vulnerability

SOFTWARE DEVELOPMENT 🏛️
Secure Software Development Lifecycle
(SSDLC)
API Security | Jinja2

Python | Fast API

DEVELOPMENT PRACTICES 🔧
Modular coding | Environment Configuration (env, dotenv) |
 error handling & Logging | SSL verification (certify) | CI/CD

Professional Experience

🧠 **Full Stack AI Developer** | VersatileAI Creations | **March 2020 – Present

- Designed and implemented AI/GenAI architectures, including **plugin-based solutions and custom builds**, reducing client operations costs by 25%.
- Built a **supply chain optimization solution** integrating AI/ML and BI dashboards, achieving a 30% improvement in demand forecasting accuracy.
- Led Generative AI implementations to provide **natural language insights**, optimizing data-driven decision-making.
- Processed structured and unstructured data for **LLM embedding and context generation**, improving AI model efficiency by 20%.
- Directed cross-functional teams to deliver scalable data analytics solutions, contributing to operational excellence across industries.
- Deployed CI/CD pipelines and managed end-to-end lifecycle for AI and analytics projects.

🚚 **Distribution Coordinator** | UNIPET | **February 2019 – February 2020

- Streamlined logistics and supply chain processes, leveraging analytics to enhance workflow efficiency.
- Evaluated proposals for modernizing operations, aligning with strategic initiatives.

🏢 **General Manager** | Sookchand Agro | **March 2011 – January 2019

- Oversaw multi-disciplinary teams to deliver cost-saving operational improvements through data-driven decision making.

📈 **Marketing Executive | Alstons Shipping Ltd. |** *January 2008 – February 2011*

- Analysed market trends and developed strategies to improve business processes.

- Coordinated with internal and external stakeholders to ensure efficient operations.

🕵️ **Cargo Surveyor | Alstons Shipping Ltd |** *October 2004 – December 2007*

- Conducted inspections and ensured compliance with safety and operational standards.

🔬 **Shift Laboratory Supervisor | Caroni (1975) Ltd |** *January 2000 – June 2003*

- Supervised laboratory operations, ensuring adherence to safety and quality standards.

Education 🎓

- **M.Sc. Artificial Intelligence** | Brunel University London | *October 2022*

- **Post Graduate Certificate Business Management** | University of Reading (Henley) | *October 2010*

- **B.Sc. (Hons). Computing and Information Systems** | London Metropolitan University | *October 2009*

- **Advanced Diploma. Internet Systems and Business Management** | NCC Education Ltd, UK | *October 2008*

- **Diploma. Computer Technical Support and E-Commerce** | NCC Education Ltd, UK | *October 2006*

Key Projects

📦 **Supply Chain Optimization with GenAI Integration**

- Developed a hybrid solution combining AI/ML and Generative AI for inventory management, route optimization, and demand forecasting.
- Designed RAG (Retrieval-Augmented Generation) workflows, generating context-aware insights and strategies.
- Delivered interactive dashboards for real-time visibility into KPIs such as inventory levels, transportation costs, and demand trends.
- Technologies: Python, Pandas, LangChain, Azure OpenAI, Power BI.

🖥️ **Generative AI for Enterprise Decision-Making**

- Created GenAI architectures to automate reporting and provide strategic business recommendations.

- Delivered a **ChatClient application** enabling real-time scenario simulations and customized solutions.

🔐 **Network Security AI Platform**

- Built an AI-based cybersecurity platform integrating predictive analytics and natural language insights.
- Reduced response times to potential threats by 50%.

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Achievements 🏆

📈 Improved operational efficiency by **20%** through **AI-driven optimization**. 💰 Increased **forecast accuracy by 30%**, saving clients **$50,000 annually** in inventory costs. 🤝 Mentored teams, **boosting project completion rates** and enhancing innovation culture.