

DEEPANSHU GUPTA

Belfast, United Kingdom | deepanshu.gupta0509@gmail.com | +44 - 7442628364

LinkedIn: www.linkedin.com/in/deepanshu-gupta7

Professional Summary

Total Experience- 5 years

- With around five years of experience in the tech industry, I specialize in developing data-driven applications and advanced analytics, particularly in the healthcare and IT enterprise management sector.
 - Proficient in utilizing **Python, TensorFlow, Hugging Face and PyTorch** libraries to create predictive models and implement machine learning algorithms for in-depth data analysis and insight generation.
 - Skilled in using **KNIME** to automate workflows, enhancing efficiency and accuracy in data processing.
 - Experienced in managing and analysing data using cloud technologies like **AWS (S3, EC2, EKS, ECS)** and **Snowflake**, ensuring robust and scalable data solutions.
 - Competent in full-stack web and mobile application development, using frameworks such as **Angular, Flutter** and **Java**, integrating user-focused design with backend functionality for comprehensive software solutions.
 - Well-versed in **SQL/No-SQL databases, Docker, and Kubernetes**, enabling me to adapt to various technological environments effectively.
 - Committed to staying ahead of the curve in data analytics, continuously updating my skills to align with emerging industry trends.
-

Skills

- | | | |
|-------------------------|------------------|---|
| • KNIME | • MongoDB | • AWS (EC2, EKS, Lamdas, RDS, SQS, etc) |
| • Python, PyTorch | • Snowflake | • Self-starter |
| • TensorFlow, Keras | • Jasper Reports | • Problem solver |
| • R programming | • JAVA | • Detail Oriented |
| • Multivariate analysis | • JavaScript | • Team Player |
| • Data Analysis | • Analysis | |
| • Machine Learning | • Docker | |
| • SQL | • Kubernetes | |
-

Work Experience

Data Analyst

Diaceutics PLC, Belfast, UK

Dec 2023 – current

- Working as a data analyst on DXRX Signals, a product driving effective physician engagement and patient care through real-time testing behaviour alerts.

- Utilized **python**, **TensorFlow**, machine learning algorithms and **John Snow Labs** to analyse complex datasets, delivering actionable insights within 48 hours to influence critical treatment decisions.
 - Implemented workflow automation and data processing enhancements using **KNIME**, managing data from over 500 diverse diagnostic labs.
 - Expertly handle large-scale, real-world diagnostic data with **Snowflake**, ensuring robust data management and reliability.
 - Collaborated with cross-functional teams to design and interpret business analytics, tailoring insights to align with specific client objectives and business needs in the realm of precision medicine.
 - **Skills: Python, KNIME, Machine learning, Data Analysis, AWS, Snowflake.**
-

Technology Consultant

Team Geek Solutions, Pune, India

Dec 2022 – Oct 2023

- **AI-Based Chat Engine:** Created an advanced chat engine and bot for communications using python, Meta APIs and OpenAI APIs. Designed the engine for plug-and-play ease, ensuring compatibility across various platforms.
 - **Evaluate.AI:** Developed a scalable interviewing platform using python, Docker and AWS EKS, emphasizing user-friendly interfaces with React. Utilized AWS EKS (Elastic Kubernetes Service) for orchestrating and scaling the application across different environments and managing load balancing.
 - **OCR Engine for Invoice Management:** Developed an OCR system using AWS textract and PyTorch for automating invoice data entry, enhancing accuracy in diverse conditions. Integrated the OCR with existing systems, focusing on handling high volumes and diverse invoice formats.
 - **Developer Team Mentorship:** Provided technical guidance and conducted code reviews to uphold best practices in AI and software development. Facilitated training sessions and workshops, fostering a learning-oriented team environment.
-

Product Engineer

Tata Consultancy Services, Pune, India

BU: Digitate – A Tata Consultancy Venture

Feb 2019 – Aug 2022

- **ignio AIOps:** Leveraged JavaScript, Angular, Java, PostgreSQL, Python and R to enhance IT operations through AI-driven solutions. The role involved developing robust, scalable features that contributed to the efficient management of IT infrastructure, incident response, and proactive problem resolution.
- **AI Assurance:** Contributed to the development of AI Assurance, focusing on automated quality assurance and predictive analytics. Implemented features using a tech stack that included JavaScript, Angular, Java, Docker, Ansible, and HAProxy, ensuring high availability and resilience of the product.
- **Data Analysis:** Utilized Python and R for predictive analysis, playing a crucial role as a data analyst. My responsibilities included analysing large datasets to derive actionable insights, building predictive models.

- **DevOps Practices:** Employed DevOps tools such as Docker, Ansible, HAProxy and Jenkins to maintain a seamless and efficient continuous integration/continuous deployment (CI/CD) pipeline, enhancing the product's overall reliability and performance.
-

Academic Qualification

MSc in Data Analytics at Queen's University Belfast

2022 – 2023, Graduated with Commendation, 70%.

Learning Outcomes:

- Acquired profound knowledge of data analytics concepts, including hypothesis testing and regression analysis. Proficient in predictive analytics techniques.
- Acquired expertise in evaluating and applying principal algorithms for machine learning and data mining, with a critical understanding of their appropriate use in various scenarios.
- Learnt practical data analytics, mining, and visual analytics. Applied these techniques to solve complex problems in text mining, image analysis, and time series modelling.
- Developed expertise in utilizing R for data analysis and Python for programming, data manipulation, and visualization.
- Gained expertise in translating complex data sets into actionable insights and strategic decision-making.
- Gained advanced knowledge in designing interactive decision-making environments and expertise in behavioural measurement and analytics, including affective computing and social signal processing.
- Demonstrated ability to autonomously and creatively approach analytical problems, underpinned by a comprehensive understanding of the relevant problem domain and literature.

Projects:

- Precision Medicine Cohort Identification and pattern analysis
- EV tariff predictions and projections

Bachelor of Technology, Mechanical Engineering

KIET Group of Institutions, Uttar Pradesh Technical University, India

2014-2018, Graduated first class with 71%.

Secondary School Certificate (General Certificate of Secondary Education)

City Montessori School, India

2013-2014, Completed with 88%.

Higher Secondary Certificate (A-Levels)

City Montessori School, India

2011-2012, Completed with 89%.

Internships

Data Analytics Intern, Diaceutics PLC

Jul 2023 – Sept 2023

- Conducted exploratory data analysis, including word cloud analysis, on patient medical records to identify patterns for precision medicine, using advanced text analysis for cohort identification.
- Performed correlation analysis on patient data to identify key predictors for precision medicine, informing feature selection for predictive models.
- Developed robust predictive models using advanced algorithms like **Random Forest**, **XGBoost**, and **AdaBoost**, with a focus on high-dimensional data and hyperparameter optimization.
- Implemented a Bidirectional **LSTM** neural network, effective in analysing sequential patient data and predicting outcomes in precision medicine.
- Achieved approximately **75% accuracy** in predictive modelling for precision medicine treatment outcomes, demonstrating the effectiveness of the combined techniques in a complex healthcare context.

Summer Intern, Hindustan Aeronautics Limited (HAL), Lucknow, India

2016

- Acquired comprehensive insights into the aviation industry, emphasizing supply chain strategies in aircraft design and manufacturing.
- Engaged in a dynamic environment, gaining practical understanding of aerospace engineering processes and business operations.
- Collaborated with industry professionals to analyse and optimize supply chain mechanisms for efficient aircraft production.

Research & Certifications

- [Advanced Proficiency in KNIME Analytics Platform \(L2\)](#)
- [Basic Proficiency in KNIME Analytics Platform \(L1\)](#)
- [Google Data Analytics Certification](#)
- Optimization of Inventory by Supplier Selection using TOPSIS Method in Piston & Ring Industry, IJAER, Nov 2018 – ISSN 0973-4562
- Study and Optimization of Inventory in Supply Chain, IJRE, May 2018 – ISSN 2250- 0588

Extra-curricular Activities

Competitions

- Won first prize at Ideathon TCS
- Awarded the Star Employee Award, Digitate TCS

Community Service

- Founding member of an NGO - Uddeshhya (NGO), India - started slum schools for underprivileged children.