# **BIKASH GURUNG**

Liverpool, UK <b>♦</b>	+44 7436598867 ♦ bikash.grg.uk@gmail.com ♦ <u>LinkedIn</u> ♦ <u>Portfolio</u>	
	PROFESSIONAL SUMMARY	

Accomplished AI and Computer Science specialist, graduating with distinction from Liverpool John Moores University and holding a strong undergraduate degree in Computer Science from Lovely Professional University. Specialized in Machine Learning and Deep Learning, I bring a blend of academic excellence and practical experience. My expertise spans from developing advanced ML models and DL applications to executing intricate EDA/ETL and statistical analysis. Proficient in a diverse range of programming languages and tools such as Python, R, TensorFlow, and Sklearn, I have honed my skills in full-stack development, project management, and collaborative leadership through roles at SHL and Cognizant. With certifications in key AI and ML areas, I am an innovative problem-solver eager to drive impactful solutions in data science. My goal is to bring exceptional value to the team, overcoming any barriers with a portfolio that stands out, and showcasing my commitment and capabilities in AI and data science.

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IF	CHV	IICAI	- Skii	I I C

- Programming Languages: Python | C | C++ | Java | HTML | JavaScript | CSS | MySQL
- ML: TensorFlow | Apache Spark | Scikit-learn (sklearn) | RAPIDS | Flask | NumPy | Pandas | Matplotlib | Seaborn
- Tools: Docker | GCP (Google Cloud Platform) | Bootstrap | WordPress | GIT | VSCode (Visual Studio Code)

Work History

#### IT Administrator, Devonshire House (Additional experience)

Liverpool, UK, 2023 - Now

• Developed and maintained the hotel's bespoke booking system, ensuring smooth IT operations and troubleshooting technical issues efficiently. Managed front desk operations, ensuring excellent guest experiences through efficient reservations, handling queries, check-ins, and check-outs.

# Management Trainee, SHL

#### Gurugram, India, 09/2019 - 04/2021

- Conducted extensive research to design assessment blueprints and test items, aligning them with client requirements, thereby ensuring the development of high-quality computer science assessments.
- Leveraged advanced Excel functionalities and CSV data files to meticulously analyze and manipulate large datasets, guaranteeing the provision of accurate and reliable data for subsequent analysis and reporting.
- Achieved code accuracy through rigorous testing on relevant platforms and conducted thorough translation reviews, resulting in flawless code deployment.
- Spearheaded comprehensive training meetings and conducted workload assessments for newly hired employees, following the company's best practices, leading to a increase in team productivity.
- Elevated the quality of modules by actively collaborating with external subject matter experts in niche IT skills, resulting in significantly improved assessment accuracy and heightened client satisfaction levels.
- Skilled in creating comprehensive technical documentation and reports, effectively communicating complex concepts and results to stakeholders, and aiding in strategic decision-making.
- Identified and implemented process improvements, leveraging technology and innovative methods to streamline workflow, enhance efficiency, and reduce operational costs.

## Programmer Analyst Trainee - Internship, Cognizant

## Pune, India, 01/2019 - 04/2019

- Demonstrated practical proficiency in full-stack development through the successful completion of a demanding internship, translating classroom knowledge into effective real-world applications.
- Collaborated seamlessly with cross-functional teams, including developers, business analysts, and project managers, to orchestrate the achievement of project deadlines and objectives, ensuring the seamless execution of tasks.
- Applied hands-on expertise to drive the enhancement of website features and functions, actively participating in the identification of areas for improvement, troubleshooting issues, and implementing necessary adjustments for optimal performance and user experience.
- Focused on optimizing user experience by implementing responsive design and user-friendly interfaces, significantly improving client engagement and satisfaction.
- Actively participated in Agile and Scrum practices, contributing to the team's ability to rapidly adapt to changes and deliver high-quality solutions in a dynamic environment.

<ul> <li>Engineered a machine learning model to classify environmental sounds, employing Multi-Layer Perceptron (MLI benchmarking it against a Random Forest algorithm.</li> <li>Utilized Librosa with Mel-Frequency Cepstral Coefficients (MFCC) for robust data analysis and feature extraction f dataset of 8,732 short audio files, categorized into 10 distinct classes.</li> <li>Achieved a significant accuracy milestone with the MLP model at 92.73%, compared to 61.11% with the Random model.</li> <li>Higgs Boson Detector</li> <li>Focused on detecting signals indicative of the Higgs boson using both Random Forest and XGBoost models.</li> <li>Implemented model training on GPU using CUDA with RAPIDS framework and compared performance with CPU-executions.</li> <li>Notably, GPU executions demonstrated superior efficiency, with training times 177 times faster in Random Fores 300 times faster in XGBoost than their CPU counterparts.</li> <li>CERTIFICATIONS</li> <li>Deep Learning Specialization – DeepLearning.Al on Coursera (June 2024)</li> <li>Machine Learning Specialization – DeepLearning.Al on Coursera (Apr 2024)</li> <li>Production Machine Learning Systems – Coursera (Sep 2023)</li> <li>How Google does Machine Learning – Coursera (2023)</li> <li>Learn Python 3 Course – Codecademy (2023)</li> </ul>	erence, .P) and
CNN and SSD MobileNet.  • Annotated a dataset of 2,400 images (800 per species) utilizing ReNomTAG, ensuring precise model training.  • Engineered a responsive web application using Flask, integrating TensorFlow Serving with Docker for model infer facilitated through gRPC communication protocol.  Environment Sound Classification  • Engineered a machine learning model to classify environmental sounds, employing Multi-Layer Perceptron (MLI benchmarking it against a Random Forest algorithm.  • Utilized Librosa with Mel-Frequency Cepstral Coefficients (MFCC) for robust data analysis and feature extraction f dataset of 8,732 short audio files, categorized into 10 distinct classes.  • Achieved a significant accuracy milestone with the MLP model at 92.73%, compared to 61.11% with the Random model.  • Iiggs Boson Detector  • Focused on detecting signals indicative of the Higgs boson using both Random Forest and XGBoost models.  • Implemented model training on GPU using CUDA with RAPIDS framework and compared performance with CPU-executions.  • Notably, GPU executions demonstrated superior efficiency, with training times 177 times faster in Random Fores 300 times faster in XGBoost than their CPU counterparts.  • Deep Learning Specialization – DeepLearning.Al on Coursera (June 2024)  • Machine Learning Specialization – DeepLearning.Al on Coursera (June 2024)  • Production Machine Learning Systems – Coursera (Sep 2023)  • How Google does Machine Learning – Coursera (2023)  • Learn Python 3 Course – Codecademy (2023)  EDUCATION  Liverpool John Moores University  Wisc. Artificial Intelligence (Grade – Distinction)  Liverpool, Unitted Kin  • Key Modules: Machine Learning, Deep Learning, Accelerated Machine Learning, Enterprise Machine Learning	erence, .P) and
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• <b>Dissertation:</b> Conducted a comprehensive MSc dissertation focusing on football player analysis utilizing unsupe learning techniques, including Density-Based Spatial Clustering of Applications with Noise (DBSCAN) and K-I Clustering.	
<ul> <li>Development and Deployment: Skilled in designing, developing, deploying, and managing sophisticated malearning models, including neural networks, computer vision and natural language processing (NLP).</li> </ul>	achine
• Data Analysis: Proficient in executing Exploratory Data Analysis (EDA) and Extract, Transform, Load (ETL) procalong with conducting detailed statistical analysis and hypothesis testing on both tabular and unstructured data	
Lovely Professional University 08/2015 – 08/	/2019
BSc. Computer Science and Engineering (Grade – 2:1)  Punjab,	-
<ul> <li>Key Modules: Object Oriented Programming, Data Structures and Algorithms, Database Management System, Pyt Programming, Discrete Mathematics, Probability and Statistics</li> </ul>	
REFERENCES —	

**Available Upon Request**