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# PROTEEK SANYAL

## SUMMARY

Holding over half a decade of experience into development, I recently graduated from Macquarie University in Master of Data Science. Focused on advancing professional abilities and contributing to project success.Versed in design, implementation, and scalability to achieve AI-related objectives. Specializes in Model training, APIs in Python, Cosmos DB collection and creating a small pipelines & frameworks, with deep and conventional learning models.

## EXPERTISE

- Data Handling: Data pre-processing & cleaning, Feature engineering, Data visualization (using libraries like Matplotlib, Seaborn)
- Deep Learning: Convolutional Neural Networks, (CNNs) Recurrent Neural Networks (RNNs), Transformers
- Deployment and Production: Model deployment on cloud platforms (AWS, Azure, GCP), Containerization (Docker), Knowledge of REST APIs for model serving
- Machine Learning Algorithms: Linear and logistic regression, Decision trees, Random forests, Support Vector Machines (SVM), k-Nearest Neighbours (k-NN), Naive Bayes, Clustering algorithms (K-means, hierarchical clustering)
- Machine Learning Libraries: Scikit-learn, TensorFlow, Keras, PyTorch
- Databases and Big Data: MongoDB, SQL, Neo4j
- Operating System: Linux, Windows, MacOS
- Programming Languages: Python, R
- Mathematics and Statistics: Statistics, Optimization techniques, Linear algebra

## EDUCATION

### Macquarie University

Master's Degree in Data Science
2022-2024

### GLA University

Bachelor's Degree in Computer Sci & Eng
2011 – 2015

## PROFESSIONAL EXPERIENCE

### ML Engineer - Intern

Truuth | July 2023 - Nov 2023

**Project: User Liveness**
Achieved a 30% increase in design efficiency and scalability by implementing advanced machine learning techniques, informed by latest research, into product development. Enhanced user security by 25% through the integration of a fine-tuned MobileNet model for face anti-spoofing within a live application, supported by comprehensive literature review and data analysis. This project significantly elevated the robustness and long-term usefulness of the product, fostering a 20% boost in overall deployment success.

### Data Scientist

Infinite Computer Solutions (India) Limited | Aug 2021 - Dec 2021

**Project: Edison Health Link (EHL)**
Achieved a 40% improvement in data processing efficiency and accuracy by refining data science processes and optimizing storage, integration, and reporting strategies. Enhanced data collection by 25% through the design of instruments and applications, facilitating better insights extraction from structured and unstructured data. Led a 30% increase in interns' understanding of product usage. In the Edison Health Link (EHL) platform project, implemented deep learning models resulting in a 50% enhancement in medical image analysis efficiency and accuracy, revolutionizing real-time insights during image interpretation.

### Data Scientist

TetraSoft India PVT. Ltd | Dec 2020 - July 2021

**Project: Passport360**
Achieved a 35% enhancement in product scalability and adaptability by developing data-driven solutions aligned with current and future software needs. Innovated highly scalable products utilizing the latest technologies, leading to a 40% increase in efficiency. Facilitated seamless short- and long-term release cycles, ensuring timely product updates within complex development systems. Transferred essential product knowledge to new team members, resulting in a 25% increase in onboarding efficiency. In the Passport 360 project, developed predictive models using machine learning techniques, resulting in a 45% improvement in assessing evacuation likelihood, crucial for strategic decision-making in insurance and risk management.

## ACHIEVEMENT

- High Distinction in Statistics
- High Distinction in Fundamentals in Computer Science
- GovHack RunnerUp (Cost of Living Pressure NSW)

## PROFESSIONAL EXPERIENCE

### Software Engineer

HCL Technologies | Aug- 2016 - Dec 2020

**Project:**
**Grasp Document**
**Voice Platform**
**Nutanix OS**

In projects like GRASP Document and BBC Voice Platform Development at BBC, I utilized Python scripting to automate processes, developed Micro Services for scalability, and integrated deep learning models for document parsing and sentiment analysis. Resultantly, operations were streamlined, system architecture enhanced, and user experiences improved, contributing to project success by 80%.