Omkar Acharya

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WORK EXPERIENCE

Microsoft **Sunnyvale, CA**

Consultant *Oct 2023 - Jul 2024*

- Collaborated with cross-functional teams to develop custom AI models, enhancing predictive analytics accuracy by 40%.
- Identified key metrics for ML/AI impact on business performance, resulting in a 20% improvement in decision-making processes.
- Implemented and optimized algorithms within PowerBi to analyze customer behavior and market trends, improving forecasting accuracy by 15%.
- Designed and developed a new data pipeline architecture, enhancing scalability by 30% and facilitating seamless integration of future technologies.

EDUCATION

University of California, Berkeley **Berkeley, CA**

Masters of Engineering, Materials Science and Engineering *Graduation Date: May 2023*

SKILLS & INTERESTS

Data Engineering: Snowflake, DBT, Fivetran, SQL, ETL Pipelines, Data Modeling, Data Pipelines

Programming Languages: Python, MATLAB, C#

Cloud Platforms: Azure, AWS, GCP, Docker

Tools: Power BI, SSMS, AzureMLStudio, Azure Synapse Analytics, NumPy, Pandas, PyTorch, Git, Azure DevOps, Flask, Kafka

Other: Microsoft Office (Excel, Word, PowerPoint), Project Management, Data Visualization, Agile, CI/CD, REST API

CERTIFICATIONS

Microsoft Certified: Azure AI Fundamentals

Microsoft Certified: Azure Data Fundamentals

INTERNSHIP EXPERIENCE

ATOM **Berkeley, CA**

Project Management Intern *Aug 2022 - May 2023*

- Developed and trained machine learning models using Python, significantly aiding anti-cancer medication research.
- Coordinated a team of engineers to curate data from MySQL databases and fine-tune hyperparameters of ML models, ensuring timely and efficient project completion.
- Leveraged data analysis tools such as NumPy, Pandas, and PyTorch in Python to analyze large datasets, improving the accuracy of ML models.
- Applied Model-in-the-loop (MIL) testing to develop and implement ML models, enhancing predictive model precision and reliability

SINP **Kolkata, India**

Student Intern *May 2019 - Aug 2019*

- Developed IoT devices for sensor characterization using Arduinos, improving data collection efficiency and accuracy.
- Conducted temperature-dependent tests on silicon photomultipliers, enhancing performance stability.
- Analyzed data using JMP software to understand the relationship between temperature, intensity, voltage, and gain.
- Developed MATLAB algorithms for Pulse Shape Discrimination, significantly improving signal processing accuracy.