# Gandham Venkata Sai Vishal

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## EDUCATION

**Adelphi University** ***August 2023- Pursuing***
Robert B. Willumstad School of Business Master's in Business Analytics GPA: 3.67/4
*Coursework- Python, Database Management Systems, Machine Learning, Advanced Business Analytics, Data Visualisation, Input and Output Optimisation Models*

**Chaitanya Bharathi Institute of Technology** ***July 2021- July 2022***
Bachelors in Electronics and Communication CGPA: 7.03/10
*Coursework- C, Database Management Systems, Machine Learning, Artificial Intelligence, Cryptography, Blockchain Technology, IoT*

## TECHNICAL SKILLS

- **Languages**: R, SQL, Python, C, MATLAB, C++
- **Software**: Visual Studio, Anaconda, Tableau, Arduino, Xilinx, MathWorks, Cadence Virtuoso
- **Tools**: PowerApps, MS Excel (Risk Management, Pivot Tables, Power Pivot, Correlations, Macros, Solver Optimization, Forecasting), MS Project, Tableau, Power Bi, MS Access (Tables, Relationships, Joins, Queries), Google Analytics

## EXPERIENCE

**Graduate Assistant**, Adelphi University ***Jan 2024 - Present***
- Revolutionizing document management with sophisticated Python algorithms, focusing on machine learning models to automate data analysis and reporting tasks.
- Developing and deploying Python-based office automation tools, focusing on streamlining tasks like record management and meeting scheduling.
- Actively managing and organizing office operations, including correspondence, record keeping, and scheduling.
- Contributing to team projects and academic event coordination, leveraging strong collaborative and communication skills.

**Business Analyst Intern**, Dream Ambassadors– Hyderabad, India ***Jan 2023 - Jun 2023***
- Partnered closely with key stakeholders to meticulously analyze business requirements, craft tailored solutions, and pinpoint enhancement opportunities, ultimately yielding an impressive 95% customer satisfaction rate and a notable 20% reduction in process inefficiencies.
- Utilized data visualization tools to create comprehensive reports and dashboards for executive decision- making, resulting in more informed strategic choices.
- Performed in-depth analysis of current processes, identified bottlenecks, and recommended process improvements, leading to a 15% increase in overall turnover.
- Conducted cost-benefit analysis to evaluate the financial impact of proposed projects.

**Industry Internship in AI, Machine Learning & Industrial IoT**, National Instruments and Cognibot ***Apr 2020 - Jun 2020***
- Developed and implemented sophisticated machine learning algorithms that processed and analyzed 500GB of industrial data, resulting in a 20% improvement in predictive analytics accuracy for a simulated manufacturing process.
- Led a team project focusing on predictive maintenance, analyzing 100,000+ data points and creating a model that reduced maintenance costs by 25%, and ensuring uninterrupted production processes.
- Collaborated with a diverse team of 5 interns to create an AI-driven anomaly detection system, decreasing false alarms by 40% and reducing response time by 15%, enhancing overall operational efficiency and response accuracy.
- Presented findings to a panel of industry experts, effectively conveying complex technical concepts, and received positive feedback, reinforcing industry recognition for the innovative solutions developed during the internship.

## ACADEMIC PROJECTS

**Data-Driven Customer Identification and Growth Strategy - Netrality:**

- Conducted Exploratory Data Analysis (EDA) and Principal Component Analysis (PCA) on Netrality's customer data to extract patterns.
- Implemented a robust predictive models leveraging machine learning algorithms that predicted prospect customers with an accuracy of over 89%, significantly contributing to the company's customer acquisition strategy.
- Derived and analysed strategic insights that guided Netrality in identifying high-value customer segments for targeted business growth.

**Traffic Flow Optimization Project:**

- Engineered a traffic management solution utilising ultrasonic and IR sensors interfaced with Arduino and Raspberry PI platforms.
- Analysed traffic patterns and adjusted signal timings dynamically based on real-time sensor data.
- Observed 20% decrease in average wait times at intersections, validated through extensive data collection and analysis. This optimization resulted in a smoother flow of vehicles during peak hours and also reduction in instances of gridlock.

**IoT Based Air Quality Monitoring System:**

- Established Environmental Data Analytics Platform using AI and ML techniques, increasing actionable insights by 40% for environmental governance.
- Developed real-time Python web application, enhancing air quality monitoring through IoT sensors.

**Industrial IoT Integration Solution: Sending sensors data over TCP protocol using LabVIEW:**

- Orchestrated Industrial IoT Sensor Integration system, minimizing downtime by 25% and optimizing operational efficiency.
- Deployed LabVIEW-base system, ensuring seamless communication, data exchange between devices.

## CERTIFICATIONS AND CO-CURRICULAR

- **TATA Forge** – Empowering Business with Effective Insights
- **Google Course Certification** - Digital Marketing
- **Programs And Activities Coordinator – Executive Board -** Graduate Student Council, Adelphi University
- **Head of Logistics –** CBIT MUN 2020 – Chaitanya Bharathi Institute of Technology.

## PUBLICATIONS

https://technoaretepublication.org/internet-cloud-computing-research/assets/article/iot-based-air-quality-monitoring-system.pdf