MUKHIL BASKARAN

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EDUCATION

Georgia State University   *Atlanta, GA*
Bachelor of Science in Computer   GPA:3.43   *Expected: Spring 2025*
Science(Junior)
- Honors & Awards: Merit Scholarship ($4750/per sem)
- Relevant Coursework: CS 1301(Python), CS 1302(Advanced python), Calc 1 and 2, Discrete Mathematics, Prin of Prog for DSC

CERTIFICATES

Microsoft Power BI Data Analyst| **Microsoft**
Google Data Analytics Professional Certificate| **Google**
SQL For Data Science| **UC Davis**

EXPERIENCE

MSV Enterprizes   *Coimbatore, India*
Data Science Intern- Part time
- Increased sales revenue by 15% through developing a linear regression model in Python to forecast product demand, enabling more accurate inventory planning. The model improved demand forecast accuracy by 10%.
- Created an interactive Power BI dashboard visualizing sales, products, channels, and regions. Dashboard led to a 5% increase in cross-selling by enabling managers to identify top-selling products and target them across channels.
- Designed Python ETL process to combine transaction data from 5 sources into a SQL database, reducing data processing time by 20%. Enabled more efficient querying for analysis.
- Identified 2 highest value customer segments through clustering analysis in Python of 2 years of transaction data. Marketing costs were reduced by 8% by targeting campaigns towards these segments.

Technology Stack: Python, Pandas, Matplotlib, Scikit-Learn, SQL, Power BI, Machine Learning, Linear Regression, Data Visualization

PROJECTS

Lane Detection Using OpenCV:
- Developed a computer vision pipeline in Python and OpenCV to identify lane lines in images and video
- Engineered features extracting road edges through Canny edge detection and Hough transforms
- Created a lane detection algorithm combining region masking, grayscale, Gaussian smoothing, and line extraction
- Optimized model parameters and workflow to accurately identify lane lines across varied driving conditions
- Demonstrated proficiency in building computer vision models using OpenCV image processing and feature extraction techniques

Technology Stack: Python, OpenCV, NumPy, Matplotlib

HR Analytics Using POWERBI:
- Built an interactive HR dashboard in Power BI visualizing employee demographics, diversity, and details
- Imported, modeled, and transformed HR data to enable analytics into workforce composition
- Designed engaging graphics including pie, doughnut, and bar charts to highlight diversity and trends
- Created clickable employee profiles providing insights into individual backgrounds and careers
- Enhanced dashboard interactivity with buttons, bookmarks, slicers, and filters for ease of use

Technology Stack:Power BI, DAX, Data Modeling, Data Visualization

NON TECH EXPERIENCE

Saxbys Cafe, GSU(Oncampus):   *Oct 23-Present*
Team Lead   *Atlanta GA*
- Led and managed all daily cafe operations including opening, closing, and inventory control
- Provided exceptional customer service through direct patron interactions and engagement
- Motivated and delegated tasks to team members to maintain excellent cafe presentation, service, and cleanliness
- Completed Saxby's learning badges which consists of Marketing, Leadership, Supply chain, Training and HR