

Akshay Munjal

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Education

George Mason University, Fairfax VA USA	Expected May 2023
Master of Science (MS), Data Analytics Engineering	GPA – 3.89/4.0
The NorthCap University, Gurgaon India (Formerly ITM)	May 2018
B. Tech, Computer Science Engineering	GPA – 6.86/10

Skills, Certifications and Tools

- **BI Tools:** Tableau, Amazon Quicksight, Alteryx, Power BI
- AWS Glue, Lambda, Athena, S3, Redshift, IAM
- **Languages:** Python (*NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn*), R (*dplyr, ggplot2, tidyverse, tidymodels*), SQL, PL SQL, MS Excel (Analytic Solver)
- **Certifications:** Google Cloud Platform – Core Architecture, Alteryx Designer Core, Introduction to R, Introduction to Tidyverse, Introduction to Tidymodels
- **Operating System:** WINDOWS XP/7/8.1/10, Linux, MacOS
- **Skills** – CRM HubSpot, LinkedIn Sales Navigator

Work Experience

IoT83 Ltd California, USA
Product Management and Data Science Sept 2022 – Present

- Utilized Python programming, analytical, and statistical techniques to gather, analyze, and interpret datasets of different IoT devices like Air Handling Unit (AHU), Chiller, Cooling Tower, RFID and Point of Sale Terminal
- Built Machine Learning models like Automatic Number Plate Recognition (ANPR) model to detect number plates on cars and extract the plate number (using YOLOv4, OpenCV, and Tesseract OCR), Anomaly Detection model to identify malfunctioning AHUs, and Fault Detection model to detect broken Pump Stations
- Performed ETL process by creating a data pipeline where data is uploaded to AWS Transfer Family (TF) and sent to AWS Elastic File System, to triggers a lambda function to capture the metadata from TF and send that to Kafka.

Amazon Web Services San Jose, CA
Business Intelligence Engineer Intern May 2022 – Aug 2022

- Created an architecture using Amazon Web Services for an end-to-end automated data cleansing flow to provide actionable visibility to the stakeholders using Amazon Quicksight to meet the business needs.
- Development of BI Data Lakes using AWS services including Athena, S3, EC2, Glue and Quicksight as well as Monitored existing metrics, developing, and proposing new metrics to provide business context to the stakeholders.
- Created an automated speech to text mechanism for converting customer call recordings to usable data using AWS services including, Lambda, S3, Transcribe and Comprehend to reduce the manual work.

BIS Research Noida, India
Senior Associate – Business Development Aug 2019 – May 2021

- Developed strategy for lead generation resulting to email deliverability to ~99% and achieved a success rate of ~25%.
- Supported in building the products to build BIS Research as a brand by giving them a revenue of around \$160K by strategizing the data to build and acquire clients across multiple industries for market research and consulting services.
- Implemented market campaign to maximize revenues from existing accounts by delivering the most expected content, and cross/up selling to manage new business growth and increase existing revenue.
- Assisted in developing proposals/business case/presentations to the clients, pitching in for the expected research content by the clients, based on their experience.

Team Computers Pvt Ltd Gurgaon, India
Business Intelligence Consultant Sep 2018 – May 2019

- Strong hands-on experience building, publishing customized interactive data visualization dashboards, report scheduling and setting user email timely updates & publishing using Tableau Desktop and Server/Online.
- Created dashboards for Jindal Stainless to track the shipment which eventually reduced the inventory stock cost by 11%.
- Worked on data cleansing, blending & modeling using Alteryx and Tableau Prep.
- Communicated with the clients for understanding their specific business applications, data flows, data relations and presented best suited the data or AI/ML product/solution
- Utilized data science, predictive models as well as Product Recommendations using Market Basket using Python.

Projects

Electric Vehicles Analysis (Data Analysis Final Project) – ([Link to Project](#))

- Performed data pre-processing activities using Pandas & NumPy libraries. Loaded the csv data into the system & carried out statistics & data visualizations. Identified useful patterns & uncovered meaningful insights from couple of EV datasets.
- Plotted KPI's, maps, linear/polynomial regression using Tableau, for various data points.

Flight Delay Analysis: (Dulles International Airport)

- Analysed and constructed important patterns and trends in flight delays across several cities and states, to recommend improvement overall flight operations productivity while lowering flight delays.
- Utilized plyr, stringr, and tidyr packages in R programming language for data cleaning and pre-processing.