

# Binal Ashok Shah

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## EDUCATION

**The University of Texas at Dallas, Dallas, TX** **August 2021 – May 2023**

Master of Science in Computer Science (Specialization in Data Science and Intelligent Systems)

Recipient of MARS Research Scholarship

**Courses:** Data Structures & Algorithms, Database Design, Machine Learning, Artificial Intelligence, Web Programming

**University of Mumbai, Mumbai, IN** **August 2014 – June 2018**

Bachelor of Engineering in Electronics and Telecommunication

**GPA: 3.75/4**

**Courses:** Structured and Object-oriented programming, Neural Network and Fuzzy Logic, Operating Systems, Statistics

## TECHNICAL SKILLS

**Programming Languages:** Python, RDBMS (MySQL, SQLite), C, Java, HTML, CSS, JavaScript, MATLAB, NoSQL (MongoDB)

**Tools/Frameworks:** SSIS, SSRS, Power BI, Tableau, Big Data(Kafka, Spark, Hadoop), Salesforce, ReactJS, Cloud (AWS, Azure)

**Machine Learning Libraries:** BeautifulSoup, Matplotlib, NumPy, Pandas, Scikit-learn, Seaborn, Statsmodels, TensorFlow

**Data Science/Miscellaneous:** ETL, Data Science Pipeline (cleaning, wrangling, modelling), Time Series, Hypothesis testing

## PROFESSIONAL EXPERIENCE

**Aronix, Mumbai, IN** **Business Analyst** **April 2020 – November 2020**

- Synthesized insights using **Excel, Power BI** to recommend solutions by understanding business needs & data requests
- Analyzed **5 years** data to reduce turnaround time by **50%** by developing dashboards that track KPIs such as churn rate

**Cleartax, Mumbai, IN** **Technical Sales Manager** **June 2018 – March 2020**

- Consulted (**CFOs and CTOs**) and leveraged advance analytics to make data predictions for **Fortune 500 companies**
- Extracted, manipulated, processed data using **SQL, Excel, Python** and translated it into business recommendations
- Provided integration solutions (**FTP, SFTP, APIs**) with **ERP (SAP, Oracle)** to automate processes/solve data irregularities
- Generated insights through data visualization in **Power BI, Tableau** to provide data/reporting services to stakeholders
- **Achievements:** 1. Won "**Power Hitter Award**" in **Jan and Feb 2020** for top performance at National level  
2. Helped company generate revenue of **INR >10 million** and onboard **30+** top clients in **1 year**

## PROJECTS

- **Training a Smart cab to drive using Reinforcement Learning (Python)** **Jan 2022**  
Utilized Q-Learning agent to train a smart cab to navigate a simplified grid environment using the optimum state space
- **CIFAR-10 Image Classification using CNN via TensorFlow (Python)** **Dec 2021**  
Created CNN using TensorFlow to classify images by implementing convolution, max pooling, flattening, dropout layers
- **E-commerce Website (HTML, CSS, ReactJS, Redux, MongoDB, NodeJS & ExpressJS)** **Nov 2021**  
Built a fully functional e-commerce website using MERN stack with interactive features like Sign In & Order Payment
- **DavisBase – Database Design Project (Java, SQL)** **Nov 2021**  
Developed a database engine that mimics MySQL and SQLite with terminal access to perform CRUD operations
- **Contact List Manager (Java Swing, SQL)** **Oct 2021**  
Created a contact list app using GUI in java that interacts with SQL through JDBC to perform CRUD operations - [GitHub](#)
- **Data Visualization Projects (Python, Power BI, Tableau)** **Dec 2020**
  - Sales Dashboard Visualization - [Link](#)
  - US Passenger Data Analysis, Visualization - [Link](#)
  - IMDb Ratings Dashboard (Used Python's BeautifulSoup for Web Scraping) - [PowerBI, Tableau](#)
- **Machine Learning Projects (Python)** **Oct 2020**
  - Image Retrieval using Deep Features -Neural Network
  - Song Recommender System - [GitHub](#)
  - Sentiment Analysis - Classification ML
  - House Price Prediction - Regression ML
- **Human Following Trolley (Python)** **May 2018**  
Made a human following trolley using Machine Learning and Computer Vision. It followed the tag with **93% accuracy**

## CERTIFICATIONS

- Machine Learning by Stanford University **April 2021**
- AWS Certified Cloud Practitioner and Solution Architect Associate **January 2022**