

SHEETAL THAKKAR

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Education

K. J. Somaiya College of Engineering, Mumbai, India
Bachelor of Technology, Major: Computer Engineering

Aug 2015 - June 2018
9.36/10.00 CGPA

Shah & Anchor Kutchhi Polytechnic, Mumbai, India
Diploma in Computer Technology

Aug 2012 - May 2015
89.53% Agg.

Work Experience

Associate Consultant, Azure Cloud and AI
Microsoft, Hyderabad, India

July 2018 - Present

- Designed and developed a Computer Vision solution for a Mining client using Azure Custom Vision and OpenCV to prevent fatal accidents on operation sites; achieving 0.82 F1-score with only 20 labelled images
- Architected an end-to-end ETL pipeline for Mastercard Track™ - a B2B payment product; responsible for data cleaning, transformation and ingesting billions of rows from multiple sources and varying data formats
- Developed a rule-based system to fully automate document processing for an Insurance client to eliminate 4+ hours of manual effort by experts per claim and increasing Azure Consumed Revenue by USD 171K
- Modelled and programmed an NLP solution (entity extraction using dependency-tree and POS pattern matching with TF-IDF ranking) for a revered pharmaceutical firm to lower complaint processing time by 20%
- Trained and deployed different regression models to predict numerical chemical formulation properties for a Pharmaceutical client, reducing the number of QA experiments for memory foams production by 65%

Student Innovator

Sept 2017 - May 2018

Riidl (Research Innovation Incubation Design Labs), Mumbai, India

- Secured research grant for developing semi-autonomous drone swarm simulations for coordinated tasks such as area exploration, surveillance and controlled shape formation
- Developed core modules for voice command processing, object recognition, and SLAM (Simultaneous Localization And Mapping) reducing area mapping failure rates by 90% over manual UAV flights
- Presented the solution to multiple stakeholders including Drona Aviation, IIT Bombay resulting in a collaboration to establish a platform for swarm drones using proprietary hardware technology (Pluto X)

Technical Skills

- **Programming and Scripting:** (*Proficient*) Python | (*Intermediate*) T-SQL, C#, Java, HTML, CSS, JS
- **Tools and Platforms:** VS Code, Git VCS, Postman, Jupyter, Azure CLI
- **Data Analytics:** Apache Hadoop, Spark, SQL Server, Azure SQL DB, Azure Synapse, Azure Data Factory, Azure Cognitive Services, Azure DevOps, Power BI, Azure Cosmos DB, Azure Data Explorer
- **Data Science:** Azure ML, Exploratory data analysis, Machine learning techniques - Linear regression, Logistic regression, Neural Networks, SVM, Tree models, Unsupervised learning algorithms

Awards and Achievements

- First Prize, global level Data & AI Hackcelerate 2019 for building an intelligent document Q&A NN model
- Best MACH (Microsoft Academy for Campus Hires) Award 2020 in Data and AI department, Microsoft India
- Popular Choice award, Machathon 2019, for a solution to flag offensive, non-inclusive conversation phrases
- Led the content and communications team for org-level diversity and inclusion initiative for 300+ participants
- Second Prize, among 254 teams, national-level Smart India Hackathon 2018 by Government of India
- Active volunteer at Making A Difference Foundation NGO for less privileged students, since December 2015