ASHOK PATEL

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EDUCATION

Kelley School of Business, Indiana University, Bloomington, IN   May 2019

Master of Science in Information Systems | Business Intelligence and Analytics

- Corporate Outreach Coordinator, MSISA: Inviting industry speakers and organizing information sessions for MSIS students

K. J. Somaiya College of Engineering, Mumbai, India   March 2018

Bachelor of Technology, Computer Engineering   GPA: **3.95**/4.00

- Student Member, Subject Board, Computer Engineering: Assisted senior board members & faculty in revising core curriculum
- Teaching Assistant, Department of Computer Engineering: Taught multiple subjects to visually impaired sophomore students
- Senior Mentor, Think Tank: Guided 2 live projects in core programming and analytics from ideation to implementation

EXPERIENCE

Indian Space Research Organization, Mumbai, India | Bloomington, IN   March 2018 – August 2018

Lead – Project Deployment

- Leading a team of 5 with 2D, 3D simulation development of a novel hybrid algorithm (Unity3D) with dynamic path calculation, reducing mapping failure rates by over 90% through immediate reallocation of jobs post unexpected node failures in a swarm
- Developed a control dashboard for Application Scientists to remotely log real-time network status, images and node heartbeats
- Designed the mission flow, automated control testing, and programmed a 2-way TCP channel in Python for packet exchange

Department of Science and Technology, Government of India, Mumbai | Bhubaneswar, India   April 2017 – March 2018

Research Data Analyst

- Scraped, cleaned and analyzed historical data of major water bodies from the Open Government Data platform for 20+ states
- Migrated the database for 64000 sources to a custom Amazon RDS + S3 instance with MySQL, provisioning automated backup, point-in-time recovery and cross-region read replicas, reducing mean query response time from 4 seconds to 0.053 seconds
- Developed a quality monitoring dashboard for the ministry to track installed kits, reducing reporting time by over 30 days

Surge, One Bit Technology, Mumbai, India   October 2016 – March 2017

Business Analytics and Operations Associate

- Responsible for analyzing, visualizing and reporting historical registration data to filter potential target colleges in a team of 6
- Streamlined online registration flow reducing turnaround time by 2 days leading to an increase in acquisition rate by over 60%
- Expedited revamp of company website by submitting new design and layout yielding close to 30% increase in web traffic

SELECTED PROJECTS

Financial Distress Prediction   June 2018

- Devised a linear regression model with critical financial ratios to assess predict a firm's credit-worthiness and financial distress
- Achieved a PCC (Probability of Correct Classification) of 71% on a default decision threshold equal to 0.4 on test data samples

Application Suite for Personal Assistant Semi-Autonomous Swarm Drones   Feb 2017 – March 2018

- Modelled and programmed a custom corpus-based command processing engine in Python with interpretation accuracy of 97%
- Developed a companion application (NLP and MultiWii control support) for interfacing with swarm intelligent drones (PlutoX)

Demographic Analysis of Service Usage Trends   June 2017 – Sept 2017

- Developed a native Android application to retrieve and upload comprehensive data about third party apps and service usage
- Parsed and analyzed collected data from Firebase RDB for mining personality trends based on usage statistics and demographics

TECHNICAL SKILLS

- **Programming/Scripting:** C • Java • Python • MATLAB | HTML5 • CSS • XML • JS • PHP
- **Software Tools:** Git • VS Code • Android Studio • Sublime • MySQLWorkbench • Postman • Slack
- **Data Analytics:** Python • R • MS Excel • Tableau • RapidMiner • Orange • Jupyter • TensorFlow • Firebase • AWS • GCP
- **Databases:** MySQL • MongoDB • PostgreSQL • SQL Server

ADDITIONAL

- Student Volunteer Head, MAD Foundation - Involved in various community service activities for the less privileged children
- Station Leader, Hamara Station Hamari Shaan Initiative - Led 300+ volunteers for 7 days in a city-wide beautification drive
- Second Prize (Leader, Team MU-FALCON) among 254 participant teams at national level, Smart India Hackathon 2018
- First Prize (Team DIWAM) among 301 participant teams at national level, Smart India Hackathon 2017