Satya Bhambhani

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SUMMARY

I am an Econometric researcher with a passion for Software Engineering and automated Machine Learning. My forte is leveraging knowledge from different domains to solve operational challenges.

WORK EXPERIENCE

Business Analyst (H1B visa)   Oct '22 – Present
ServiceNow (New Product Introduction, IMPACT- Business Operations), California-USA

- Developed a detailed understanding of the IMPACT program and the Global Operations
- Conducted sentimental analysis on customer comments using Python & Big Data tools (RegEx)
- Assumed role of Manager- Sales Finance in Specialist Solution Consultant
- Ran optimization algorithms (Headcount management, SPOC, Critical App Adoption Rate)
- Worked with other departments (Customer Success, Specialist Consultant) to develop dashboards
- Implemented process improvements by automating routine tasks and reports using Python

ML Data Engineer (6-week contract)   Aug '22 – Sept '22
HiTech Digital Solutions (Global Outsourcing Company), California-USA

- Developed prototype to track Global Client Engagement Opportunities using Python in PowerBI
- Invented a scalable AI tool to scan legal documents using Python and BERT model for Big Data
- Increased accuracy by 15% for an NLP-based ML model used to classify 10m+ legal documents

Data Analyst (student work visa)   Aug '21 – Jul '22
IMEG Corp. Headquarters (Engineering Design & Consulting), Illinois-USA

- Created automated ML models using TensorFlow to automate sensor tagging for buildings
- Automated telemetry dashboard to identify HVAC usage trends using PowerBI and Azure Hub
- Used Big Data and Data mining to identify and track critical IoT sensors from Spark databases
- Developed ML model to predict tags for building sensors to classify equipment using NLP
- Provisioned Azure's IoT telemetry sensors using C, C++ and live-streamed data to PowerBI
- Diagnosed technical problems in critical VBA reports, debugged code and automated refreshes

Faculty   Sep '19 – May '21
San Diego State University, California-USA

- Professor/Faculty for Economics-102 with 64 students; Faculty Rating: 4/4; Class average: A+
- Co-author on econometric paper on '*Impact of New Business Openings on Local Crime*' harnessing millions of Yelp samples for algorithmic statistical modeling on crime pattern recognition

Research Assistant - Finance   Sep '18 – Jun '19
Indian Institute of Management, Ahmedabad-India

- Researched regressions for '*Effect of GFC-2008* on *Capital Flows & Sovereign Credit Bond Ratings*'
- Automated web scrapers to Extract UAE policies from national archives using Data Mining, NLP

FREELANCE PROJECTS

Management, Operations & Execution, *Junk Junkys Inc, San Diego*   Jan '23 – Present
- Manage operational activities, Develop Pricing models, and Create marketing strategies
- Conduct financial planning, debt scheduling, and market analysis
- Assist in designing a WebApp solution to meet the local & regional business goals

Financial Valuation and Predictive Modeling, *Matbakhi, Kuwait*   Aug '22
- Conducted financial valuation of a restaurant using various Deep Machine Learning methods
- Predicted revenue with cost simulations to project cash flows using sales pattern recognition

Operations & Accounting SaaS, *MirchMasala2Go LLC, San Diego, California*   Jul '22
- Delivered Proof-of-Concept for managing the Restaurant business by creating a webapp product
- Lead of team of 2 Python & 3 backend developers within a Containerized Coding SaaS Structure

WebApp Development, www.satyab21.com *(self)*   May '22 – Present
- Prototype for One-Click Automation by leveraging Machine Learning, Statistics & Economics
- Wrote production quality code with reusability for my own website's features
- Structured Designing approaches for scalability and Deployment methods to handle code-breaks

ERP/SaaS, *Swazei Inc. (Software Solutions), San Diego, California*   Jun '21
- Collaborated with a team of Python developers to deliver impact on ERP web-app functionality
- Internal Software Design, Product/Resource feasibility, and Cloud Infrastructure management

LEADERSHIP POSITIONS & ACHIEVEMENTS

Allocated **$1.8m** strategically to university student projects & Student Groups	*Jan '21*
Secured **$23,000** budget as Vice President of Finance for Graduate Student Association	*Aug '20*
Honored with a Scholarship for top of the class performance of GPA 3.93/4	*Jul '20*
Winners for **Chartered Financial Analyst (CFA)** Investment Research Challenge- San Diego	*Feb '20*
Cleared **Chartered Financial Analyst (CFA)** Examination for Level-1	*Jun '19*

EDUCATION

Master in Economics
San Diego State University, California
Aug '19 – May '21

Post Graduate in Business Analytics,
Gujarat University, Ahmedabad, India
Jul '18 – May '19

Bachelor of Science in Economics
Narsee Monjee Institute, Mumbai, India
Jul '15 – Apr '18

LANGUAGES

C, C#, C++, PowerQuery, Python, SQL, R, HTML, CSS

TECHNOLOGIES

LIBRARIES:
TensorFlow/Keras, Scikit-learn, PyTorch, Pyodbc, Selenium, MatPlotLib, PDF2IMG, NLTK, Jinja2

FRAMEWORKS:
NumPy, Pandas, RegEx, JavaScript, FastAPI, Flask, Uvicorn

TOOLS:
PowerBI, SQL Server, Azure, Visio, VSCode, Git, Confluence /JIRA

SKILLS

MACHINE LEARNING:
Auto-ML, Neural Nets, Deep Learning, NLP, Classification, Prediction, Regression

DATA:
Web Navigation and Scrapping, API, CRUD, IoT, Text Analytics, Telemetry streaming

RECOGNITIONS

2022
IMEG Corp.
'**Frontliners**' for developing productive internal tools

2021
A.S., SDSU
'**Lamp of Leadership**' for expanding graduate student governance

2020
CFA Society- San Diego
'**Outstanding Investment Research**' for Investment analysis