NITIN MOHAN

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Profile

Energetic and dependable individual enthused to leverage my proven professional experience in the fields of Data Sciences, Artificial Intelligence & Software development and the insights gleaned to be an integral asset towards continual growth.

Education

MASTER'S OF SCIENCE (*ARTIFICIAL INTELLIGENCE*) — EXPECTED SEPTEMBER 2022

UNIVERSITY OF SOUTHAMPTON, *SOUTHAMPTON, UNITED KINGDOM*

MODULES: Intelligent Agents, Simulation Modelling, Algorithmic Game Theory, Computational Finance, Computer Vision

BACHELOR OF TECHNOLOGY (*COMPUTER SCIENCE & ENGINEERING*) — AUGUST 2014 – AUGUST 2018

GPA: **78.4%**

GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, *DELHI, INDIA*

MODULES: Algorithms & Design, OOPs, Operating Systems, Compiler Design, Data Structures, Artificial Intelligence, Machine Learning

Work Experience

TECHNOLOGIES CONSULTANT | *EY GDS LLP* — March 2019 – September 2021 — *BENGALURU, KARNATAKA, INDIA*

Data Science Associate

- Conceptualized, developed & deployed *Credit Risk rater* models and API endpoints for Insurance conglomerate using ML, Monte Carlo simulation modelling and FastAPI in Python that accepts policy-buyer(s) details and produces underwriting results to facilitate pricing of policy premiums & evaluation of risks involved.
- Produced a *Financial Report Summarizer* using Deep-NLP that summarizes reports down by ~90%.
- Devised *Real-time Monitoring* module to assess and report on the operability of manufacturing IoT devices using Deep Learning which reduced generation of false-positive alerts by ~85%.
- Performed analysis on EY's employee records pertaining to recorded qualifications, learnings, technical & non-technical skills etc. to calculate individual utilisations and produced in-depth Power BI reports on Labour Economics to enable decision-making for optimum team-structuring pyramids.
- Earned Bronze badges in *Cybersecurity*, *Artificial Intelligence* and *Data Visualization* domains by completing in-house trainings and holding knowledge-sharing sessions for each.
- Won Spot Awards for Q3 FY20 and Q2 FY21 for delivery of Labour Economics and Credit Risk raters.

Framework Developer

- Devised *Accelerator* desktop utility using PowerShell scripting that automated the process of en masse migration of privileged accounts and decreased man-hours required for PAM by ~95%.
- Developed *Authentication framework* using Microsoft Authentication Library (MSAL) and Active Directory Authentication Library (ADAL) in Python and Java to enable Multi-factor authentication in, and liaised with stakeholder clients for, the migration of applications & user stores to Microsoft Azure.

SOFTWARE DEVELOPER | *INTELLIGRAPE SOFTWARE PVT. LTD. (TO THE NEW)* — October 2018 – March 2019 — *NOIDA, UTTAR PRADESH, INDIA*

- Designed *Self Service Portal* using Python and Django REST Framework (DRF) for various Cloud computing services needs of company resources.

INTERN | ***I**NSTITUTE OF **S**YSTEM **S**TUDIES & **A**NALYSIS, **D**EFENCE **R**ESEARCH AND **D**EVELOPMENT **O**RGANIZATION* — June 2017 – July 2017 — *NEW DELHI, INDIA*

- Developed system for detection & handling of malicious executables using Python's Machine Learning algorithms and Java's WEKA ML suite as part of mentored internship.

Academic Projects

- ***Intelligent Agent***
  Languages & Technologies: Java, GENIUS.
  Goal: The project aimed to develop an Intelligent Agent in Java which would be able to efficiently negotiate with other agents and achieve results favourable to both parties.
  Outcome: The agent developed competed with all other agents in all domains and was able to achieve the maximum Nash Distance of 0.87.
- ***COVID-19: Finding alternate avenues to ensure sales***
  Languages & Technologies: Python, Microsoft Excel, Microsoft Power BI.

Goal: The project aimed to analyse the unstructured *comments* data about hinderances faced by sales representatives of pharmaceutical firms in securing appointments with GPs in Tennessee, USA and about the GPs' views on moving to alternate methods of meeting and making suggestions accordingly to better adapt to the modified biotech landscape.
Outcome: The results showed that 84% GPs in Tennessee, USA were optimistic about alternate means of interacting with sales reps such as by using in-office kiosks coupled with video conferencing while 12% would prefer to revert to face to face meetings.

- ***Text-to-Handwritten characters generator***
  Languages & Technologies: Python.
  Goal: The project aimed to convert input text to user-defined sample of their handwriting.
  Outcome: The resultant application can convert text content from .txt files into a PDF file with the content in the user's uploaded handwriting samples.

Technical Competencies & Other Skills

- **LANGUAGES & FRAMEWORKS** : Python, R, BASH, TensorFlow, PyTorch, Computer Vision, NLP, Dash, Django REST Framework
- **LIBRARIES** : Pandas, Scikit-Learn, NumPy, cuDF, FastAI, SpaCY, Eli5, Word2Vec, Python Image Library (PIL), FastAPI, Plotly, Seaborn
- **TOOLS & IDES** : VSCode, Eclipse, Jupyter, AzureML, AWS Sagemaker, Git, BASH, Rally, Hugging Face
- **SOFT SKILLS** : Strong communication & organizational skills, leadership, team player, problem-solving, fast learner