Manju Malateshappa

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EDUCATION

Simon Fraser University

Master of Science in Computer Science (Big Data)

University Visvesvaraya Colege of Engineering

Bachelor of Science in Computer Science

Burnaby, Canada August 2019 - May 2021

Email: mmanju2@gmail.com

Bangalore, India

August 2009 - June 2013

Programming Skills

Languages: Python, Javascript, Typescript, SQL, NoSQL, HTML, CSS/SASS

Libraries and Frameworks: Scikit-learn, TensorFlow, React, Nodejs, D3.js, Django, IBM NLU, chatGPT

Experience

Alida Inc Vancouver, Canada May 2021 - June 2023

Senior Artificial Intelligence Engineer - Full time

• Led the successful implementation of AI services, including content parsing, PII masking, and conjoint

- analysis, using Node.js and Python for comprehensive text analysis and market research. o Productized AI services using **Docker**, **Terraform**, and **Kubernetes** (EKS), simplifying deployment and
- enhancing scalability for seamless service delivery. Assisted in scaling up the infrastructure for AI services using **Terraform**, enabling seamless handling of increased
- workload and ensuring scalability.
- Played a key role in building an AI pipeline for text analysis services, leveraging Node.js to create a scalable
- o Coordinated with the Data Engineering team to process 15 million records through the AI pipeline, ensuring efficient data processing.

Nagra Kudelski

Bangalore, India

Software Engineer - Full time

January 2014 - August 2019

- Resolved critical customer issues in products used by over 3 million users, debugging complex JavaScript, React.is, and Node.is code.
- Successfully delivered 3 projects with 100% on-time UI deliverables, ensuring efficiency and high quality.
- Designed and developed highly scalable and maintainable embedded applications using HTML, CSS, SASS and **JavaScript**, optimizing performance for low-end platforms.
- o Provided effective solutions for various **performance issues**, including boot-up, screen navigation, and UI rendering.
- Implemented Jasmine and Selenium automation to enhance feature quality and prevent regressions.

Projects: Big Data & Machine Learning

• Model Fairness and Transparency

- Addressed biases in machine learning by analyzing COMPAS recidivism data and implementing deep neural network classifiers (DNNClassifier) in TensorFlow.
- Ensured fairness and transparency in the model by identifying and mitigating biases using advanced tools such as IBM AI Fairness 360 and Google WhatIf Tool.

Airbnb data analysis

- o Conducted web scraping of Airbnb data and performed ETL using Beautiful Soup, storing the data in AWS S3 for analysis.
- Leveraged Python pandas, TextBlob, and Scikit-learn to analyze data, perform sentiment analysis, build ML pipelines, and identify key factors for becoming a super-host: high response rate, low cancellation rate, positive sentiment score, and good neighborhood.

• Facial landmark detection models using ensemble of regression trees

- o Developed a highly scalable face swap software by building a machine learning model using dlib, OpenCV and python.
- Hyper-tuned parameters (Nu, Depth of the tree, cascade, feature pool size, number of test split, oversampling) in ensemble of regression trees to get better accuracy in a less complex model.

Publications (Links)

Automatic land use/land cover classification using texture and data mining classifier, published in: 2013 IEEE International Conference of IEEE Region 10 (TENCON 2013), 22-25 Oct. 2013.

CERTIFICATIONS

Coursera deeplearning.ai

Neural Networks and Deep Learning

Completed on February 22, 2020

- Built, trained and applied fully connected deep neural networks.
- Gained strong expertise in implementation of efficient (vectorized) neural networks.
- Understood the key parameters in a neural network's architecture which is important for fine-tuning the coefficients in order to improve the performance.

HACKATHON EXPERIENCE

Alida Hackathon (17-18 March 2023) - Winner

• Automated PR generation on GitHub using **ChatGPT** and Git diff, winning the hackathon by showcasing a game-changing software engineering use case.

Alida Hackathon (17-18 March 2022) - Winner

- Developed an innovative AI-based **classification** solution to accurately identify speedsters among survey respondents, revolutionizing data analysis and enabling data-driven decision-making
- Demonstrated exceptional technical expertise by successfully integrating the AI solution into the renowned Alida platform, resulting in enhanced survey insights and recognition as the winner of a prestigious hackathon

Dish-a-thon: India's first and largest Media and Entertainment & Broadcasting Industry Hackathon (16-17 June 2018)

• Successfully created a demo-able product (Interactive advertisements on Television User Interface) using **HTML**, **CSS**, **JavaScript**, **Python** and **OPENTV** platform for the presentation.

NAGRA KUDELSKI group Hackathon (17-18 September 2018)

• Engineered a state-of-the-art fire safety algorithm in **Python**, paired with a captivating **React.js** front-end UI, earning accolades from the esteemed Nagra Kudelski group..

OTHER EXPERIENCE

Simon Fraser University

Vancouver, Canada

Teaching Assistant (Programming in Python) - Part time

September 2019 - December 2019

- Assisted and mentored students in group size of 10 to 20 by reviewing lesson teachings and also helping them to solve coding assignments in the labs.
- Supported instructor playing roles in test administration, curriculum development, reviewing exams and assignment grading.

Obezod Service Apartment

Bangalore, India

Managing Director

April 2016 - August 2019

- Founded and financed a profitable hotel, providing on-demand accommodation to tourists and travelers with a personal investment of USD 6000. Employed a team of 4 individuals to handle daily operations
- Achieved impressive returns within a year by implementing successful business strategies, resulting in an annual turnover of approximately USD 21000.