

BHARGAV SINGAPURI

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PROFESSIONAL EXPERIENCE

Vertex Holdings Pte. Ltd.

Full Stack Software Engineer

Singapore

December 2021 - April 2023

- Leveraged algorithm design principles to develop and deploy a Full Stack Django backend and React frontend application using Agile software development methodologies on GCP, aligning with business objectives and strategy.
- Utilized Terraform on Google Cloud Platform (GCP) for infrastructure provisioning, ensuring compliance and efficient deployment processes for internal company use, simplifying processes for the various Funds under the Vertex umbrella.
- Conducted data mining and data-driven analysis by ingesting data from external databases, APIs, and websites using Python Scripts and Airflow, expanding available data sets for better forecasting and investment decisions.
- Collaborated with cross-functional stakeholders to create an end-to-end solution that improved outreach opportunities and enhanced investment strategies.
- Implemented CI/CD pipelines for automated code linting, testing, and deployment with Github Actions and Google Container Repository, optimizing performance metrics and monitoring.

Upskills Pte. Ltd.

Full Stack Software Engineer

Singapore

May 2021 - July 2021

- Led a team of Interns in the development of a Full Stack application in Angular, Flask, and MongoDB, ensuring object-oriented design and application development, deployed using Docker for demonstrations to large local banks.
- Collaborated with an International Developer Team to create an internal Software Licensing and tracking system, aligning with business strategy and compliance needs, to ensure that customers stayed within contractual obligations.
- Authored extensive documentation to facilitate comprehension of the codebase and APIs by team members.

PROJECTS & OUTSIDE EXPERIENCE

Industry Sponsored Final Year Project

Work-Study Degree ISFYP Attaché

Vertex Holdings Pte. Ltd

August 2022 - May 2023

- Employed state-of-the-art algorithm design techniques to create classifiers that predict LinkedIn Industries from a company's description using HuggingFace, PyTorch Lightning, and AWS, aligning with fintech business objectives.
- Deployed the classifiers to the company's existing CRM tool, aiding Investment managers in making informed investing decisions.
- Trained, fine-tuned, and tuned the supervised machine learning models, ensuring optimal performance and tuning.
- Utilized git for version control to track changes in the model architecture and WandB for monitoring model metrics and storing artefacts.

Neural Networks and Deep Learning

Undergraduate

Nanyang Technological University

August 2021 - November 2021

- Developed Deep Neural Network models in TensorFlow for categorizing and summarizing news articles, employing unsupervised LSTM Seq-2-Seq and a supervised Classifier model with an emphasis on data-driven analytics.
- Achieved over 60% categorization accuracy and produced adequate summaries, demonstrating proficiency in machine learning.
- Utilized scikit-learn for data processing pipelines and quantitative evaluation of model performance, ensuring data models met performance metrics.

EDUCATION

Nanyang Technological University (NTU)

Bachelor's, Computer Science

- Relevant Courses:** Neural Networks and Deep Learning, Natural Language Processing,

Information Retrieval, Data Analysis & Mining, Software Engineering, Databases, Data Visualisation, Calculus, Linear Algebra, Statistics, Regression Analysis, Simulation Techniques in Finance, Multivariate Analysis, Time Series Analysis, Basic Optimisation.

SKILLS & INTERESTS

Skills: Next.js, Node.js, AngularJS, Adobe Photoshop, Agile, Android Development, AWS, Celery, Computer Vision, CUDA, Data Analysis, Data Science, Data Structures & Algorithms, Development Operations (DevOps), Django, Docker, Flask, Flutter, GraphQL, Heroku, iOS/Swift, JavaScript, JIRA, jQuery, Jupyter, Git, HTML/CSS, Java, Airflow, Keras, Linux/Unix, C/C++, Maven, Microsoft Azure, R, MongoDB, MySQL, Python NLTK, NumPy, Pandas, Objective-C, Postgres, Postman, Pytorch, React.js, REST APIs, Ruby, Ruby on Rails, SCRUM, Snowflake, SQL, Tableau, Tensorflow, Terraform, Natural Language Processing (NLP), Kubernetes, Python, MATLAB, Nginx, TypeScript, UI/UX Design, Video Editing, Web Development, Sentry, NoSQL, Word/Pages/Docs, Excel/Numbers/Sheets, Blockchain, Digital Ocean, Financial analysis, Firebase, Software Testing, TCP/IP, Vercel, SpaCy

Languages: Hindi, Gujarati

Interests: Cycling, Photography, Video Games, Cooking