Pranavi Shekhar

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EDUCATION

University of California, Irvine   Dec 2023
Master of Computer Science

Anna University   Apr 2021
B.E. Computer Science and Engineering (GPA: 8.62/10)   Chennai, India

PROFESSIONAL EXPERIENCE

McKinsey & Company   Aug 2021 - Jun 2022
Junior Capabilities & Insights Analytics Analyst   Chennai, India

- Worked with **McKinsey Health Institute (MHI)** to model neurological data using **R**. This helped in quantifying the impact of mental health conditions and identifying opportunities for effective treatment. In addition, was also responsible for MHI's key model related to global disease outlook and management.

- Designed a novel web-based solution for McKinsey's **Retail Banking** practice to track and manage KPIs in the insurance market, consisting of an intuitive user interface and interactive graphical elements built in **Python**, with **Dash** and **Plotly**.

- Collaborated extensively with the **Risk & Resilience** practice to model various kinds of financial risks faced by banking institutions. Said model was deployed in the risk assessment of 5 multi-national banks.

- Led the modeling effort to assess commodity demand across 7 key sectors/industries for the **Global Energy & Materials practice**, co-developed with and used by a key electrical and electronics manufacturing company.

- Mentored an intern to manage the team's request handling tool and to that end, facilitated their learning of **VBA and ASP.NET**.

McKinsey & Company   Jan 2021 - Aug 2021
Capabilities & Insights Analytics Intern   Chennai, India

- Re-conceptualized the back-end architecture of the team's primary request handling tool and upgraded the usability of its web interface, resulting in a **40%** increase in efficiency and improved ease of use.

- Implemented a supervised classification model in **Python** to accurately identify agricultural expanses from satellite images, contributing to the team's geo-spatial analytics effort.

Admatic Solutions   Apr 2019 - Jun 2019
Computer Vision Intern   Chennai, India

- Constructed interactive modules that enabled students (mostly between 10 - 16 years of age) to learn mathematics visually in order to further their understanding of foundational concepts via direct and live experimentation.

- Gained experience in the field of image processing by working with binary square fiducial markers, using **OpenCV** in Python.

ACADEMIC PROJECTS

Automatic drone route planning   Aug 2019 - Dec 2019

- Developed a system interface to automatically plan drone routes required to cover an area in the shortest time period, by utilizing an optimum number of drones and minimum charging points.

- Prototyped using **R**, Flask and Unity.

Predicting drug approval in oncology   Dec 2020 - Mar 2021

- Worked on a Cox Regression model to predict likelihood of drug approval in Oncology from Phase-1 clinical trial data and employed survival analysis parameters to gauge its effectiveness.

- The modeling was carried out in **R** and the front-end built using JavaScript.

SKILLS

- **Programming languages:** Python, R, SQL, M, DAX, VBA, .NET.

- **Technologies/Frameworks:** Linux, Git, PySpark, Dash/Plotly, GDAL, GeoPandas, ApacheAirflow, Apache Kafka.

- **Interests:** Data engineering, Software development, Machine learning, Data & Business analytics, Business modeling.

- **Languages:** English, Hindi, Tamil.

CERTIFICATIONS

- **Developing data products in R -** Coursera, Johns Hopkins University.

- **Market research specialization -** Coursera, UC Davis.

- **Data Science : Foundations using R -** Coursera, Johns Hopkins University.

- **ETL and Data Pipelines with Shell, Airflow and Kafka -** Coursera, IBM.