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

UCI's Office of Data and Information Technology — June 2023 – Dec 2023
Data Fellow — Irvine, USA

- Working on end-to-end data lifecycle management, encompassing data retrieval, transformation, and curation for cohesive healthcare solutions.
- Focused on leveraging generative AI through **OpenAI** APIs, **Langchain** and **vector databases** for an intuitive and compassionate **clinical trial matching** experience for patients and healthcare providers alike. Also exploring **AWS Bedrock** as a single platform to manage AI solutions in a secure manner.
- Building an AI based platform to automate the creation of **sustainability** dashboards based on AASHE data, with web integration via Streamlit. This facilitates efficient querying and helps to drive informed decision-making to enhance sustainability initiatives on the campus.

Next Generation Robotics — Jan 2023 – Sep 2023
Software Development Engineer — Irvine, USA

- Spearheading the development of a cross-platform fitness application (iOS and Android) enabling fitness enthusiasts to bid on training sessions with local personal trainers, with a technology stack focused on **SpringBoot**, **React Native** and **AWS** (hosting).
- Utilizing a cutting edge combinatorial auction algorithm to seamlessly produce and manage fitness schedules.
- Supervising the front-end workflow of two team members, overseeing comprehensive testing and successful integration of their work via **git**.
- Implemented **CI/CD** pipelines to streamline and automate the software development process, ensuring efficient, error-free deployment and updates.

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,** and build effective data processing **pipelines** to quantify the impact of mental health conditions and identify opportunities for effective treatment. In addition, was responsible for MHI's key model related to global disease outlook and management.
- Designed a novel **web-based, data driven solution** for McKinsey's **Retail Banking** practice to track and manage KPIs in the insurance market with 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.
- Modeled 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. Extensively utilized **Power Query** and **Power Pivot** for data modeling.
- Mentored 2 interns and guided them to manage the team's request handling tool and to that end, facilitated their learning of **Python, 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, built using **R**, **SQL**, **.NET** and **VBA**, in addition to upgrading 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.

SKILLS

- **Programming languages: Python**, **R**, **SQL**, Java, HTML, CSS, **JavaScript**, **M**, **DAX**, **VBA**, .NET.
- **Technologies/Frameworks:** Linux, **Git**, Tableau, Dash/Plotly, ScikitLearn, Pandas, **Jira**, SpringBoot, Apache Airflow, Apache Kafka, **MS Excel**, **PostgreSQL**, REST APIs, **Langchain**, **OpenAI**, React Native, **AWS Bedrock, MongoDB**
- **Interests:** Data engineering, Software development, Data Science, Data analytics, Business modeling.