Srivatsav Saravanan

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Skills

Languages: Python, SQL

Technologies & Tools: FastAPI, Numpy, Pandas, PySpark, HTML, CSS, Git, Docker, AWS S3

Work Experience

Orion Innovation, India   Nov 2020 - July 2024

Software Engineer

- Revamped the accessibility of onboarding applications utilized by over 5000 users through effective responsive web design.
- Streamlined the performance of the OutOfOffice application by resolving over 13 database-related issues, enhancing user experience.
- Conducted data analysis on 200,000 records to extract and generate user-profile reports, enhancing decision-making and strategic insights.
- Reduced decision-making time by 40% by developing a User-Profile Dashboard for onsite clients.
- Spearheaded the data migration project from Optus Data Center to HQ On-Premise Data Center, optimizing processes and achieving a 30% cost reduction.
- Formulated comprehensive As-Built documentation, enhancing project understanding by 74%.
- Collaborated with onsite clients to conceptualize and create bespoke front-end designs that aligned seamlessly with provided requirements.
- Technologies used: Python, HTML, CSS, JavaScript, MSSQL.

Education

NMBU Norway   Aug 2024 - Present

M.Sc in Data Science

Relevant Coursework: Python Programming, Databases and Analysis, R Programming, Data to Decision

Karpagam College of Engineering, India   Jun 2016 - Mar 2020

B.E. in Computer Science and Engineering   *CGPA: 8.09/10*

Relevant Coursework: Object Oriented Programming, Databases, Data Structures and Algorithms, Operating Systems, Computer Networks

Project Work

- **AV Dansestudio (2024):**
  - Developed a dynamic web portfolio for a dance center, showcasing class schedules, events, and instructor profiles, leading to a 10% increase in new client sign-ups within the first three months.
  - Designed a visually engaging, user-friendly interface, aligning with the dance center's brand, resulting in a 25% improvement in website engagement.
  - Integrated contact features, enabling prospective clients to easily sign up for classes and get in touch with the center.
  - Technologies used: HTML, CSS, Bootstrap, JavaScript and AWS S3.
- **Energy Analysis and Forecasting Platform (2024):**
  - Extracted over 800,000 records from multiple APIs (Denmark Municipalities, weather data, and energy statistics) using BeautifulAPI and PySpark. Stored the datasets in MongoDB and Cassandra for efficient data retrieval and processing.
  - Designed and implemented a custom (S)ARIMAX model to forecast energy consumption and production patterns for selected municipalities, incorporating exogenous variables such as temperature and windspeed. Enabled dynamic forecasting from user-selected time points to provide accurate, real-time insights.
  - Integrated the forecasting model with an interactive dashboard using Plotly for data visualization. Developed user-friendly features for selecting municipalities, production types, and energy metrics. Enabled detailed exploration of energy trends, geographical data, and dynamic filtering of variables, optimizing decision-making for end users.
  - Technologies used: Python, PySpark,Cassandra, MongoDB, Plotly.

Awards and Certificates

- Star of the Month (3 times) at Orion Innovation.
- Introduction to SQL certification by DataCamp.
- Python certification by Infosys.
- PySpark certification by DataCamp.
- Earned A1 and A2 level Norwegian Certificate.