Chakravenu Gandham

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Profile

Versatile Software Developer and Data Engineer with 5 years of experience across frontend development, full stack engineering, and data analytics. Skilled in designing data-driven solutions that enhance business growth and operational efficiency, with proven expertise in AWS, Python, Angular, and Power BI. Experience at global organizations such as Amazon and Allianz has equipped me with the ability to create impactful data pipelines, automate processes, and deliver actionable insights through interactive dashboards. Currently pursuing an M.Sc ↗. in Data Science, I am eager to bring my technical and analytical expertise to dynamic projects in data analytics, business development, and full-stack development.

Professional Experience

Data Engineer I, *Amazon EU SARL*   05/2024 – 11/2024
LUX20-CO, Luxembourg

- **Data Pipeline Development:** Designed, developed, and maintained scalable and reliable data pipelines using AWS technologies (e.g., S3, Glue) to support data processing and analysis across multiple teams.
- **ETL Process Optimization:** Optimized Extract, Transform, Load (ETL) processes to improve data ingestion and transformation efficiency, reducing processing time by 60% and ensuring data accuracy and consistency.
- **Collaboration with Stakeholders:** Worked closely with data scientists, analysts, and business teams to understand data requirements and deliver customized data solutions that drive business decisions.
- **Data Quality Assurance:** Conducted thorough data validation and implemented data quality checks to ensure high standards of data integrity and reliability across all datasets.

Data Analytics and Insights Intern, *Allianz SE* ↗   11/2023 – 04/2024 | Munich, Germany

- **Spearheaded Azure-based data collection initiatives,** implementing rigorous validation protocols to ensure data accuracy and completeness across all datasets.
- **Leveraged Python to automate and streamline data manipulation and transformation processes,** resulting in a 30% reduction in processing time and improved data quality.
- **Developed and delivered interactive Power BI dashboards,** translating complex datasets into actionable insights that informed strategic decision-making.
- **Collaborated with cross-functional teams,** providing technical expertise and contributing to the development and execution of key project strategies, leading to successful project outcomes.

Data Analyst, *Innominds Software SEZ India Pvt. Ltd* ↗   10/2020 – 09/2021 | Hyderabad, India

- The purpose of this project is to provide educational learning insights of a student and other organization information in an interactive way.
- Assembled, cleaned and organized large data sets, improving data accuracy and reducing analysis time by 30%
- Proficient in data manipulation using Python, SQL, and Excel to clean, transform, and organize large datasets.
- Strong problem-solving abilities with a data-driven approach, applying analytical thinking and logical reasoning to solve complex data-related challenges.
- Used Power BI for data visualization.
- Conducting data validation checks to ensure data accuracy, completeness, and consistency.

Software Engineer, *Innominds Software SEZ India Pvt. Ltd*   08/2017 – 08/2020 | Hyderabad, India

- Developed dynamic web pages as a UI developer using HTML5, CSS3, Bootstrap3, JavaScript and Angular 6+
- Made extensive use of Node.js and NPM

- Strong experience in writing and updating technical documents regularly with changes made to the existing environment.
- Used GIT for version control and JIRA for bug fixing.
- Built an interface for statistical data about broadband users using RESTful APIs
- Extensively used Angular HTTP service to perform AJAX calls for consuming the RESTful web services
- Involved in creating Custom Directives in the deployment of commonly used components across project such as grid, pagination, and conditional validation
- Extensively used the plotly.js library to make charts with dynamic data.

Education

M.Sc. Data Science, *University of Trier*   2021 – present | Trier, Germany
Relevant Coursework: NLP, Database Systems, Big Data, Data Mining, Java, Statistical methods of data science and Numerical Optimization

Bachelor degree in Electronics and communication   2013 – 2017 | Kakinada, India
Engineering, *KIET*

Skills

JavaScript, TypeScript, Java(basic), R, Python, Angular, AWS
Programming Languages

PostgreSQL, MySQL, MongoDB
DataBases

Power BI, Advanced MS Excel, Tableu, Quicksight
Data Analysis Tools

JIRA, GitHub, Microsoft Office, Agile (Scrum)
Version Control & Others

Languages

Telugu   ● ● ● ● ●   English   ● ● ● ● ◌

German   ● ● ◌ ◌ ◌   Hindi   ● ● ● ◌ ◌

Interests

Coffee painting, Dance, Playing Badminton

Projects

Fundamentals of Clinical Text Extraction in NLP,   07/2023 – 09/2023
Research Paper ⌤
Explored healthcare record systems, emphasizing the prevalence of clinical text, comprising over 40% of data. Highlighted the potential to improve healthcare outcomes through analysis. Addressed the need for pseudonymization to protect sensitive information. Investigated challenges posed by unstructured clinical text and outlined steps for processing, including segmentation, tokenization, lemmatization, stemming, and semantic analysis.

Optimal Transport in Text Classification,   2023
Research Case Study ⌤
- Investigated applying optimal transportation techniques in text classification to enhance the accuracy and efficiency of classification algorithms.
- Developed a novel approach that leveraged optimal transportation theory to measure the semantic similarity between documents and improve the classification performance.
- Conducted extensive experimentation using large-scale text datasets, evaluating the effectiveness of the proposed approach against traditional classification methods.
- Employed Python, natural language processing libraries, and optimal transportation frameworks (such as Wasserstein distance) to implement and experiment with the proposed approach.
- Documented the research process, methodologies, and experimental setup, contributing to the knowledge base and facilitating future research in text classification.