Pranali Chipkar

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EDUCATION

Northeastern University, Boston USA
Master of Science in Information Systems Expected May 2025
- Relevant Coursework: Application Engineering Development, Web Design and User Experience Engineering, Data Science Engineering Methods, User Experience Design and Testing

University of Mumbai, Mumbai, India
Post Graduate Diploma in Information Technology July 2022
- Relevant Coursework: Software Engineering, Advance Java, Linux, Web Programming, Networking

Bachelor of Science in Information Technology Oct 2020
- Relevant Coursework: C, C++, Core Java, Database Management Systems, Python, Operating Systems, Embedded Systems

TECHNICAL SKILLS

Languages/Web technologies: C, C++, Java, Python, C#, Powershell, HTML, CSS, JavaScript, TypeScript, React, NumPy, Pandas, R
Developer Tools: Service Now, Solarwinds, Nagios, Balsamic WireFrames, Moqups, Figma
Technologies/Frameworks: Linux, Unix, Swing, ASP.NET, Azure, Git, Data Visualization, Statistical Analysis, Data Analysis, Data Modelling
Database: SQL, MySQL, MongoDB

EXPERIENCE

INFOSYS, INDIA Nov 2020 – Aug 2023
Senior Systems Associate
- **Earned** a promotion to **Senior Systems Associate** and developed and refined **40+ PowerCLI** and **PowerShell scripts**, automating diverse administrative tasks.
- Spearheaded the implementation of **15+ server application scripts**, resulting in a 25% reduction in deployment time.
- Facilitated comprehensive **knowledge transfer sessions**, resulting in a **30%** decrease in **security incidents** due to human error.
- Implemented **robust** measures to protect sensitive data, leading to a remarkable **40%** improvement in overall **operational efficiency.**

Systems Associate
- **Attained** promotion to **Systems Associate** position by overseeing the **creation, modification,** and **deactivation** of more than **600,000** user accounts, thus optimizing group memberships and directory structure.
- Realized a notable **20%** surge in **operational efficiency** for Siemens Gamesa Renewable Energy (SGRE).
- Contributed to a 15% **reduction** in onboarding time for new employees through **optimized** account management processes.
- Slashed manual workload by an impressive 35%, leading to a **substantial boost** in team productivity.

Operations Executive
- **Oversaw** the **management** of various **client tools** such as **Service Now, Solarwinds, and Nagios**, ensuring a system uptime of 99.9%.
- Took **proactive** measures to identify and resolve system issues, resulting in a **significant 30% reduction** in **downtime** and mitigating disruptions.
- Implemented **robust security protocols**, resulting in a notable **50% decrease in security breaches** through the adoption of encryption protocols.

PROJECTS

Parkinson's Disease Predictor Apr 2024
- Developed a machine learning-based tool utilizing **voice recordings** to predict the likelihood of Parkinson's disease using the **random forest** model, achieving a high accuracy of **96%**.
- Employed data preprocessing techniques and **exploratory data analysis** to identify significant predictors for Parkinson's disease.
- Trained a **Generative Adversarial Network** (GAN) to produce synthetic data mimicking real patient data, validated through dimensionality reduction techniques achieving a similarity score of over **90%**.

Cervical Cancer Risk Classification Mar 2024
- Performed meticulous **data cleaning** and **preprocessing**, achieving a dataset accuracy and completeness of 95%. Enhanced **model performance** by 15% and reduced dimensionality by 20% using advanced **feature engineering** techniques
- Achieved an average of 85% accuracy on test data using **linear regression** and **decision tree algorithms** like **random forest**.
- Explored multiple model architectures with **AutoML** techniques, selecting the top-performing model with a **96%** accuracy rate.
- Conducted **SHAP** analysis and **Partial Dependence Plots** (PDP) to provide insights into **feature importance** and contributing factors for cervical cancer risk classification.

Analysis of GDP_PPP Determinants Across Nations Feb 2024
- Spearheaded an in-depth data analytics initiative utilizing **Python libraries** like **pandas, numpy, matplotlib, sklearn, stats models**, etc to delve into the determinants of **Gross Domestic Product** at **Purchasing Power Parity** (GDP_PPP) across nations.
- Applied **regression analysis** and **K-means clustering** to quantify the impact of key factors e.g., **Entrepreneurship, Quality of Life,** and **Cultural Influence** on GDP, revealing significant associations (e.g., Entrepreneurship: $604.34).
- Concluded with comprehensive findings, shedding light on the intricate relationship between socioeconomic factors and economic growth, aiding in **cluster result interpretation**.

Web-Based Coding Editor Dec 2023
- Led development and deployment of an innovative **online code editing platform** utilizing **CSS** and **HTML** for a user-friendly interface, integrating **MongoDB** for real-time user data, achieving a **25% reduction** in **page load** times and a 40% boost in user satisfaction.
- Implemented **collaborative coding**, resulting in a 50% increase in project completion rates, and utilized **TypeScript** for enhanced functionality.
- Implemented advanced **evaluation features** and **performance analytics**, enabling users to accurately track progress and performance, leading to a significant increase in user engagement.

E-commerce Food Portal: Effortless Ordering Jul 2022
- Engineered an innovative **e-commerce food ordering application** leveraging **Java** application and **MySQL** database, integrated **real-time inventory** for enhanced scalability and customer experience.
- Enhanced **cross-platform compatibility**, resulting in a 30% increase in website traffic and a 20% rise in customer satisfaction.
- Integrated **real-time delivery tracking**, reducing delivery time by 25% and boosting customer loyalty, while ensuring **data integrity** at 99.9%.