Tripti Kripanand Mishra

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EDUCATION

Vellore Institute of Technology, Tamil Nadu, India   **May 2022**
Bachelor of Technology in Computer Science Engineering (GPA: 8.93/10.0)

SKILLS

Languages: C, C++, Java, C#, Python, SQL, MySQL, PHP, Angular, React, JavaScript, Bootstrap, DevOps, Terraform, Azure, CI/CD
Platforms and Tools: Visual studio code, Visual Studio, Anaconda, Jupyter Notebook, Tableau, PowerBI, GitHub
Technical Skills: Problem Solving, Object-Oriented Programming, Database Management System, Operating System, Web Development
Interests/ Extra-curricular skills: Content Writing, Blog Writing, Reading, Tech-savvy research

PROFESSIONAL EXPERIENCE

Software Development Engineer - 1 | ExxonMobil | Bengaluru, India   **June 2022 – Present**
- Enhanced application through *containerization, logic apps, queues*, and VMs for seamless integration
- Headed Deviation project, automating tracking, introducing email triggers for efficient communication
- Migrated applications to *Terraform* for streamlined cloud deployment
- Achieved *letter of appreciation* from manager for exceptional work legacy code bug fixes

Machine Learning Intern | Smart Internz | Mumbai, India   **April 2021 - June 2021**
- Contributed to "Predicting energy output of wind turbine based on weather conditions" using IBM Cloud project, applying diverse ML techniques
- Devised a novel IOT-based camera using *OpenCV* for face expression analysis with mask at a specific location, *NumPy*, *Pandas, Sklearn* to clean, process and visualize data and *Random Forest* to forecast expressions with 91% accuracy
- Formulated innovative ML-based product modifications for customer preferences using *Random Forest, Support Vector Machine and Naïve Bayes Algorithm*

PROJECTS

Diabetes detection and food recommendation system | VIT University   **January 2022 – May 2022**
- Conducted an in-depth audit of Indian eating habits utilizing data from the health data collection open portal, employing Pandas and Sklearn within the Spyder environment.
- Demonstrated strong analytical and problem-solving prowess by analyzing glucose levels, smoking tendencies, and alcohol consumption patterns.
- Employed advanced analytical techniques, including neural networks and random forest algorithms, to achieve a remarkable accuracy of 94.26% in predicting diabetes and offering personalized dietary recommendations.
- Leveraged inputs such as age, height, weight, glucose levels, pregnancy, smoking habits, insulin usage, and alcohol intake to develop a cutting-edge website that tailors individualized diets based on BMI, fostering the promotion of healthier eating habits.
- Engineered a user-friendly application interface that not only classifies food items but also provides well-suited dietary alternatives, coupled with the presentation of crucial nutritional and calorie information.

Detection of phishing sites | VIT University   **April 2020 - June 2020**
- Engineered an impactful real-world application harnessing the capabilities of machine learning, aimed at fortifying user security through the swift and precise identification of phishing websites.
- Devised and implemented an innovative web-based API that effectively evaluates and categorizes URLs into distinct groups of phishing or non-phishing sites, contributing significantly to online safety.
- Capitalized on the efficiency and robustness of Fast API, seamlessly amalgamating it with cutting-edge machine learning algorithms to create a high-performance system that consistently provides accurate and dependable outcomes.

Mental Health Analysis | VIT University   **April 2020 - June 2020**
- Skilfully analysed two distinct datasets concerning mental health and suicide rates in India, unearthing crucial insights into these urgent societal concerns.
- Identified significant determinants impacting mental well-being, with a focus on age and gender; demonstrated a heightened vulnerability among adult males and highlighted the role of wellness programs in fostering improved psychological health.
- Revealed alarming suicide rate escalations in regions such as Andhra Pradesh and Delhi, emphasized the role of education and employment in addressing these issues, and underscored the need for enhanced mental health awareness and comprehensive support mechanisms.