AJAY KUMAR REDDY BOREDDY

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EDUCATION

University at Albany, Albany   Aug 2022–Jun 2024
Master of Science (MS) in Computer and Information Sciences   *GPA: 3.42*
Karunya University, Coimbatore, India   Aug 2015–July 2019
Bachelor of Technology (B.Tech.) in ECE   *GPA: 3.94*
Awarded Best Outgoing Student

Coursework: Algorithms and Data Structures, Computer Organization, Deep Learning, Statistical Learning, Database Systems, Software Engineering, Operating Systems, Data Mining.

PROFESSIONAL EXPERIENCE

IT Specialist Intern, New York Information and Technology, Albany   Jan 2024–present
- Enhanced the Cannabis License Application by incorporating new features and improving functionalities using **.NET Core**, **C#**, and **SQL** Server.
- Led development efforts on key projects, such as the Office of Cannabis License Application and TPI Disclosure Application, utilizing **ASP.NET MVC, JavaScript**, and **Entity Framework**.
- Demonstrated strong understanding of testing components and deliverables within the SDLC using **NUnit, Moq,** and **Azure DevOps** for continuous integration and automated testing, ensuring software quality and reliability.

Software Developer, CGI, Hyderabad, India   Mar2020–May 2022
- Developed **Mass Auto Insurance Product** for Massachusetts, supporting private and commercial auto insurance with features like data collection, underwriting, billing, claims management.
- Collaborated with **Business Analysts** to gather requirements and implemented modules using **C#, .NET Core**, and **ASP.NET MVC**; created SQL scripts in **SQL Server 2008** for improved data interactions.
- Resolved defects for **UAT teams**, used **NUnit** for unit testing, and utilized **Azure DevOps** for CI/CD, ensuring high-quality software delivery.

Associate Software Engineer, CGI, India   Sep2019– Feb2020
- Collaborated with a banking client, **CORA**, to design and develop a suite of applications for the loan department using **ASP.NET Core**, resulting in an 80% reduction in manual errors among employees.

Full Stack. net Intern, NIIT, India   Jul 2019 –Oct 2019
- Developed a **cricAPI** using **ASP.NET**, focusing on front-end design and web content creation, while also testing sensor functionality for real-time data analysis, troubleshooting bugs, and programming sensors for automation.

SKILLS

Programming Languages: C#, SQL, C, ASP.net, MVC, React, Python JavaScript
Tools: AWS, Azure, Docker, Kubernetes, Django, Flask, MySQL, Visual Studio 2015,2017,2022 Vs Code
Learning: Integration of ML.Net, Serverless Artificial Intelligence, Natural Language Processing Tree methods, Neural Network
Other: Nunit, Moq, CI/CD, Serilog, Git, HTML, CSS, Linux

PROJECTS

End-to-end MLOPS — *ASP.net Core, AWS, Docker, GitHub Actions*
- Orchestrated end-to-end data science lifecycle pipeline with MLflow for tracking models, leveraging AWS, Flask, and Docker for model deployment, and Grafana for model monitoring dashboards.
- Implemented comprehensive unit tests and **CI/CD** pipelines with GitHub Actions to ensure code quality.

Question Answering system using .Net AND NLP — *.Net, NLTK, GLoVE*
- Implemented a lightweight question-answering model using a **Distil BERT** backbone with additional head layers, achieving competitive F1 (84.56) and EM (75.846) scores comparable to BERT, while reducing parameters by 40%.

Crop Diagnosis and Monitoring Application — *TensorFlow, Pandas, NumPy, .Net*
- Built and deployed a Convolutional Neural Network (CNN) model in a **.NET** application capable of detecting diseases in 14 different crops, achieving an accuracy of 98.19%. The application utilized **TensorFlow.NET**, along with **Pandas** and **NumPy** for data manipulation, and was supported by **ASP.NET Core** for the web interface

Hyperparameter Tuning Play Site — *ASP.net Core, HTML, CSS*
- Deployed a web application for effective hyperparameter tuning deep learning models using ASP.net Core.

LEADERSHIP EXPERIENCE

- **Headed** Centre for Social Action, a voluntary body with over 300 volunteers, and handled events with over **1000 people**.
- Acted as the **President** of Karunya University Electronics Students Technical Club, leading a team of **240 members**.