Sesha Sailendra Devanabanda

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EDUCATION

M.S. Computer Science   Expected May 2024
Arizona State University, Tempe, AZ   3.93 GPA
Relevant coursework: **Data Processing At Scale, Applied Bayesian Graphical Models**, **Statistical Machine Learning, Privacy and Machine Learning**, Knowledge Representation and Reasoning.

B.Tech. Computer Science & Engineering   December 2020
International Institute Of Information Technology, Hyderabad, India   7.64/10 GPA
Relevant coursework: **Statistical Methods in Artificial Intelligence, Database Systems, Data Warehousing, Operating Systems**, Distributed Systems.

CERTIFICATIONS

- AWS Certified Machine Learning – Speciality
- AWS Certified Developer – Associate
- DeepLearning.AI Deep Learning Specialization

PROFESSIONAL EXPERIENCE

Nationwide, Columbus, Ohio: Machine learning engineer Intern   05/2023 - Current
- Overhauled a **customer-ranking model** that assesses their likelihood to **churn** in response to **auto premium** changes to adhere to the latest model factory architecture, enhancing its scalability and maintainability.
- Successfully **migrated** data science models from CentOS 7 to AlmaLinux, involving comprehensive updates to Python and R environments and the revision of package versions. This strategic transition, aimed at preempting CentOS 7's end-of-life in 2024, not only ensured continued security support but also **maintained model consistency with a 99% accuracy rate** in output alignment between the old and new systems.
- Utilized **AWS Sagemaker, Tensorflow, Python, R and Docker** to enhance the deployment process and model efficiency.

Openplay Technologies, Hyderabad, India: Software Engineer   07/2020 - 06/2022
- Developed an **end-to-end full stack data pipeline** that processed application data and computed user and application metrics.
- Increased the pipeline **scalability**, **extensibility** and **fault-tolerance** for multiple data models.
- Reduced player game **joining time by 35%** and increased user **retention by 40%** which contributed majorly to achieving our team's ARR goals in less than 9 months.
- Leveraged knowledge in **Python**, **SQL**, **Kafka**, **Redshift and Jenkins**.

International Institute Of Information Technology, Hyderabad, India: Teaching Assistant   08/2018 - 05/2019
- Mentored 200+ students for the **Operating Systems** and **Engineering Systems** courses.

RELEVANT PROJECTS

Art Generation with Neural Style Transfer   Spring 2023
- Developed and applied the **neural style transfer algorithm** for artistic image transformation.
- Employed the **VGG-19**, a 19-layer version of the VGG network, as the pre-trained convolutional network for feature extraction.

Transformer Network Application: Named Entity Recognition   Spring 2023
- Conducted fine-tuning on a pre-trained **transformer model**, specializing it for Named-Entity Recognition (NER), thereby enhancing its ability to extract specific entities from resumes.
- Leveraged **tokenizers** and pre-trained models from the **HuggingFace** Library, streamlining data preprocessing and model development.

SKILLS

Languages/Frameworks: Tensorflow, Apache Spark, Python, R, SQL
Developer Tools: Docker, Kubernetes, Git, AWS Sagemaker, Kafka, Flink, AWS Services, S3, Simple Queue Service (SQS), Simple Notification Service (SNS), Lambda, EC2, EMR, Aurora, and RedShift, Tableau