BANSIKUMAR MENDAPARA

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EDUCATION

Master of Science - Computer Science GPA: 3.95 **Expected May 2021**
San Diego State University San Diego, CA, USA

Bachelor of Engineering - Information Technology CPI: 8.08 **June 2019**
Gujarat Technological University Gujarat, India

SKILLS

Programming Languages:	Python, Java, C, C++
AWS:	EC2, S3, RDS, Lambda, CloudFront, VPC, DynamoDB, Directory Service
Machine Learning:	Logistic Regression, Linear Regression, KNN, SVM, CNN, RNN
Database:	MySQL, NoSQL
IDE:	Jupyter Notebook, Spyder, Net Beans, VS Code
Web Technologies:	JavaScript, Bootstrap, CSS, HTML

PROJECTS

AWS Theme Park - Serverless Web Application | AWS Amplify, AWS SAM, Amazon QuickSight, AWS Lambda

- Configured **Amplify** to publish the web app and deployed the backend infrastructure using **SAM**.
- Populated a **DynamoDB** table containing ride and attraction information for the park.
- Launched **Amazon Kinesis Firehose delivery stream** to ingest data of park visitors and designed **QuickSight** to perform business intelligence analytics.
- Introduced Amazon **EventBridge**, CloudWatch and SNS to notify ride system outages.

Hybrid Directory and Migration | AWS Directory Service, AWS Workspaces, AWS FSx, VPC Peering

- Simulated On-premises environment in AWS which had windows server running as **Domain Controllers** (Self Managed On-premises Active Directory), file server and simulated client desktop.
- Created AWS VPC with a **VPC peer** between AWS and simulated On-premises to simulate a VPN/DX.
- Set up AWS managed Microsoft AD and built **two way forest trust** between AWS and On-premises.
- Launched **AWS FSx** and explored DFS Namespaces.
- Completed migration by launching AWS **Workspaces** and granted access to an On-premises identity.

Ship Detection in Satellite Image | Tensorflow, Scikit-learn, CNN, SVM, Pandas, Matplotlib, Python

- Executed **feature extraction** using **Histogram of Oriented Gradients** (HOG) technique.
- Designed and developed model using 3 different algorithms CNN, VGG16 and SVM.
- Analyzed and optimized machine learning models using **hyper parameter tuning** with **100% recall**.

SMS Spam/Ham Classification | Tensorflow, RNN, KNN, SVM, Matplotlib, Python

- Identified frequent words in Spam/Ham message, implemented **tokenizer** to tokenize data and converted into same length sequence.
- Applied 3 machine learning models Recurrent Neural Network, K-Nearest Neighbor and SVM.
- Achieved better results and applied hyper parameter tuning using **GridSearchCV**.

Lung Cancer Detection | SVM, Matplotlib, Python, MATLAB

- Converted images into grayscale format and performed **dimensionality reduction**.
- Preprocessed dataset by various techniques like thresholding, filtering, masking and segmentation.
- Developed model using **Support Vector Machine** algorithm and classified images into 2 category.
- Secured **2nd rank** in Project Exhibition.

CERTIFICATION

- AWS Certified Solutions Architect Associate
- AWS Certified Cloud Practitioner
- Oracle Cloud Infrastructure Foundations 2020 Certified Associate