PRANAVI CHINTHAKAYALA

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CAREER OBJECTIVE

Computer Science Graduate skilled in AWS Cloud, DevOps, Python, and SQL, with hands-on experience in deploying scalable infrastructures on AWS using Terraform, Docker, and Kubernetes. Proficient in CI/CD pipelines (Jenkins, GitHub Actions), Linux administration, and SQL database optimization. Applied Python and machine learning to real-world projects in fraud detection and healthcare analytics. Seeking roles as a Cloud Engineer, DevOps Engineer, or Python Developer to deliver automation-driven, secure, and reliable solutions.

TECHNICAL SKILLS

Cloud & DevOps : Amazon Web Services (EC2, S3, Lambda, RDS, VPC, IAM, CloudWatch, ELB, Auto Scaling, CloudFormation), Terraform (IaC), Docker, Kubernetes, Jenkins, GitHub Actions, CI/CD Pipelines.
Programming Languages : Python, HTML, CSS.
Version Control Git, GitHub.
Operating Systems : Linux.
Database Management : SQL, MySQL.
Machine Learning & Automation : Supervised and Unsupervised Learning (SVM, Decision Trees), Model Deployment with Python & TensorFlow, Automation with Python Scripts.

PROJECTS

Online Transaction Fraud Detection

- Engineered and preprocessed transaction datasets with Python (Pandas, NumPy) and SQL, applying feature engineering, class balancing, and cross-validation to build robust fraud detection inputs.
- Trained and tuned Decision Tree and ensemble models using scikit-learn, achieving 82% detection accuracy while reducing false positives through iterative hyperparameter optimization.
- Integrated models into a Django web application, connected to a SQL backend, and deployed via Docker & GitHub Actions, enabling secure, real-time fraud detection with automated builds and deployments.

Children's ADHD Detection

- Extracted behavioral pose features from video data using OpenCV/MediaPipe and processed them with NumPy/Pandas for accurate motion analysis.
- Built and evaluated SVM and TensorFlow CNN-LSTM models, achieving 78% diagnostic accuracy by tuning architectures and balancing precision vs. recall.
- Deployed the trained model via TensorFlow Serving + Flask API, containerized with Docker, and implemented version control for datasets and models using DVC & S3 storage.

Highly Available 3-Tier Architecture

- Designed and provisioned VPC with public/private subnets, NAT Gateway, and IAM roles using Terraform modules, enabling secure and reproducible multi-environment deployments.
- Implemented EC2 Auto Scaling Groups with Application Load Balancer to distribute traffic across instances, ensuring fault tolerance and zero-downtime scaling.
- Configured Amazon RDS (MySQL Multi-AZ) with automated backups, snapshots, and read replicas to achieve durability, availability, and optimized query performance.
- Built CI/CD pipelines with GitHub Actions and containerized services deployed to ECS/Fargate, enabling automated blue/green deployments and consistent infrastructure delivery.
- Monitored health and performance with CloudWatch dashboards and alarms, integrated with Grafana, and enforced compliance through KMS encryption, IAM policies, and WAF protection.

EDUCATION

Bachelor of Technology in Computer Science and Engineering **Sep 2020 - May 2024**
Malla Reddy University | Hyderabad, India

Board of Intermediate Education **Jun 2018 - Mar 2020**
Narayana Junior College | Hyderabad, India

CERTIFICATIONS

- Data Analytics with Python - **NPTEL**
- Python (Basics) - **HackerRank**
- AWS Cloud Practitioner Essentials - **Coursera**
- IBM SQL and Relational Databases - **Coursera**
- Machine Learning Introduction for Everyone - **Coursera**