

Technology Overview Document

Modern Technology Landscape This document provides an overview of current technology trends and developments.

- Artificial Intelligence:**
 - Machine Learning algorithms are revolutionizing data analysis
 - Natural Language Processing enables human-computer interaction
 - Computer Vision applications in healthcare and autonomous vehicles
- Web Development:**
 - Frontend frameworks like React, Vue, and Angular
 - Backend technologies including Node.js, Python Flask/Django
- Database systems:** SQL (PostgreSQL, MySQL) and NoSQL (MongoDB, Redis)
- Cloud Computing:**
 - Infrastructure as a Service (IaaS)
 - Platform as a Service (PaaS)
 - Software as a Service (SaaS)
 - Major providers: AWS, Google Cloud, Microsoft Azure
- DevOps Practices:**
 - Continuous Integration and Continuous Deployment (CI/CD)
 - Containerization with Docker and Kubernetes
 - Infrastructure as Code (IaC)
 - Monitoring and logging systems